

**Vol. XIV**  
**TRANSCRIPT OF RECORD**

(Pages 4405 to 4536)

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**Supreme Court of the United States**

**OCTOBER TERM, 1951**

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**No. 428**

**PENNSYLVANIA WATER AND POWER COMPANY  
AND SUSQUEHANNA TRANSMISSION COMPANY  
OF MARYLAND, PETITIONERS,**

**vs.**

**FEDERAL POWER COMMISSION ET AL.**

**No. 429**

**PENNSYLVANIA PUBLIC UTILITY COMMISSION,  
PETITIONER,**

**vs.**

**FEDERAL POWER COMMISSION**

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**ON WRITS OF CERTIORARI TO THE UNITED STATES COURT OF  
APPEALS FOR THE DISTRICT OF COLUMBIA CIRCUIT**

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**PETITIONS FOR CERTIORARI FILED NOVEMBER 16, 1951**

**CERTIORARI GRANTED FEBRUARY 4, 1952**

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(P. 4405)

GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON

HOLTWOOD - SAFE HARBOR SYSTEM

AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

By Hours For 30 Days In 1946



# GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON HOLTWOOD - SAFE HARBOR SYSTEM AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -			DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM			DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.			ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -							SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -							ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -							
	60 Cycle Gen. at S.H.	Freq. Chg'r.	69 Kv Circ'r.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Firm	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. & L Co	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.	Other	PP & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Town Maryland	Total	PP & L Co.	Highland Town Md.	Freq. Chg'r.	Total
									TOTAL	From Md.	% From Md.											Size	Hydro	Freq. Chg'r.	Total																				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	
1			31	31	100		18	12	12	100					11	11	100				13	8		21	1	5	27			1			1	8	8	18	9	14		23	3	17		20	
2			43	43	100		18	22	22	100	1		1	100	13	13	100	10	10	100	13		13	10		23	10	43				4	1	9	8	22	9		9	3	3		6		
3			38	38	100		15	21	21	100					11	11	100	9	9	100	13		13	9		22	9	41				4		7	8	19	6		6	3	3		6		
4			48	48	100		24	21	21	100					11	11	100	9	9	100	13		13	9		22	9	41				4	1	8	8	21	8		8	3	3		6		
5			46	46	100		29	16	16	100		-1			10	9	94	7	7	94	13		13	7		20	7	35				3		7	9	19	6		6	3	3		6		
6			49	49	100		25	22	22	100					12	12	100	9	9	100	13		13	9	1	23	9	39				2	1	8	8	19	8		8	3	4		7		
7			69	69	100		22	46	46	100	12	1	13	100	19	19	100	15	15	100	13		13	15		28	15	59			1		8	1	9	11	29	10		10	4	4		8	
P																																													
8	4		62	66	94		23	39	37	94	10		9	94	21	20	94	3	3	94	13	17		30	3		33	3	9			3	7	4	10	4	28	4	41		45	4	38		42
9	52		17	69	25	5	11	55	14	25	17	4	5	25	26	7	25	9	2	25	13	21		34	9		43	2	5			10	12	3	11	3	40	2	57		59	6	50		56
10	89	5	4	98	4	16		84	3	4	18	18	1	4	27	1	4	17	1	4	13	20		33	17		50	1	2			13	18	3	12	2	48	2	64		66	5	53		58
11	88	2	6	96	6	16	1	81	5	6	17	18	2	6	28	2	6	16	1	6	13	21	1	35	16		51	1	2			13	21	3	11		48		65	65	5	52	2	59	
12	69		16	85	19	6	2	78	15	19	16	18	6	19	28	5	19	15	3	19	13	20	2	35	15		50	3	6			11	22	2	11		46		65	65	4	52	2	58	
P																																													
1	31		40	71	56		20	51	29	56	13	10	18	56	22	12	56	4	2	56	13	21	2	36	4		40	2	5			7	19	4	10		40		63	63	5	51	4	60	
2	63		14	77	18	6	2	69	12	18	15	17	6	18	25	5	18	12	2	18	13	20		33	12		45	2	4			11	20	3	10		43		65	65	4	52	2	58	
3	66	1	17	84	20	3	7	73	15	20	16	16	6	20	24	5	20	14	3	20	13	22	3	38	14		52	3	6			12	20	3	10		45		72	72	6	57	2	65	
4	47		25	72	35		8	67	23	35	15	16	11	35	26	9	35	12	4	35	13	21	2	36	12		48	4	8			10	24	3	11		48		70	70	4	56	3	63	
5	35		44	79	56		13	66	37	56	14	14	16	56	23	13	56	11	6	56	13	22	3	38	11		49	6	12			19	22	3	10		49		71	71	5	57	2	64	
P																																													
6	78		19	97	20	10	15	92	14	20	16	17	7	20	25	5	20	15	3	20	13	21		34	15		49	3	8			13	19	2	11	1	46		68	68	4	59		63	
7	117			117			29	12	79			16	18		27			16			13	21		34	16		50					15	18	2	12		47		71	71	4	60	2	66	
8	93		6	99	6	11	15	72	4	6	15	16	2	6	26	2	6	14	1	6	13	23	2	38	14		52	1	2			13	19	3	11		46		70	70	4	57	2	63	
9	69	1	3	73	4	14	13	48	2	4	14	5	1	4	23	1	4	4	-	4	13	22		35	6		41					2	11	11	3	11		38		65	65	3	55		58
10	37		3	40	8	13	8	20	2	8	6			8	17	1	8	-5			13	22		35			35					5	8	6	6	10		35		64	64	4	56	2	62
11	13		12	25	48	2	14	9	4	48	4			2	48	15	2	13	-9		13	22	2	37			37					9	6	4	4	10		33		68	68	3	56	2	61
12			36	36	100		28	6	6	100	3		3	100	12	3	25	-7			12	21		33			33					7	3	7	5	9		31		61	61	3	50	1	54
P																																													
Tot.	951	9		648	1608		131	343	1129			238	187		482			220				311	365	17	693	224	6	923			24	168	294	61	236	70	853	64	1114		1178	95	948	26	1069

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16 of 7

Date: Friday February 8, 1946



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -								
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Cir's.	Maryland	Total	S. From Maryland	Maryland	Freq. Chg'r.	60 KV CIRCUITS			Fire	Other	Total From Maryland	S. From Maryland	Total	From Maryland	S. From Maryland	Total	From Maryland	S. From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman Farm	Met. Ed.		P P & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland from Maryland	Total	P P & L Co.	Highland from Md.	Freq. Chg'r.	Total							
									TOTAL	From Md.	S. From Md.											Steam	Hydro	Freq. Chg'r.	Total		Lehman F.	Met. Ed. P P & L Co													Total	From Maryland	From Maryland				
																																												(1)	(2)	(3)	(4)
1				47	47	100		2.4	2.2	2.2	100	4		4	100	10	10	100	9	9	100			12		12	9	21	9	43			8		9	2	19	2	9		11		9		10		
2				56	56	100		2.6	2.8	2.8	100	4		4	100	9	9	100	14	14	100			4		4	14	1	19	14	74			6		7	4	17	4		4	2	1		3		
3				53	53	100		2.1	3.3	3.3	100	6		6	100	8	8	100	17	17	100					17	2	19	17	89			6		7	4	17	2		2	2	1		3			
4				60	60	100		1.9	3.9	3.9	100	5	4	9	100	12	12	100	20	20	100					20	2	22	20	91			12		7	2	21	3		3	2			2			
5				53	53	100		2.0	3.3	3.3	100	5		5	100	12	12	100	16	16	100					16	1	17	16	94			6		7	4	17	3		3	2			2			
6				52	52	100		2.1	3.0	3.0	100	6		6	100	10	10	100	16	16	100					16	2	18	16	89			6		6	6	18	4		4	2	1		3			
7				61	61	100		2.0	3.9	3.9	100	5	2	7	100	13	13	100	19	19	100					19	2	21	19	90			8		7	4	19	4		4	3	2		5			
P																																															
8				69	69	100		2.5	4.3	4.3	100	8	3	11	100	12	12	100	21	21	100					21	1	22	21	95					6	4	21	5		5	2	2		4			
9		1		54	55	98		2.4	3.1	3.0	98	4		4	98	12	12	98	15	15	98					15	2	17	15	88			16		6	6	18	4		4	2	2		4			
10				47	47	100		1.6	2.9	2.9	100	4		4	100	11	11	100	16	16	100					16	1	17	16	94					7	6	13	4		4	2	2		4			
11	5			48	53	91		2.8	2.1	1.9	91	3		3	91	12	11	91	9	8	91			8		8	9	1	18	8	44			4	1	7	6	18	6		6	3	2		5		
12				46	46	100		1.3	3.2	3.2	100	2		2	100	13	13	100	15	15	100					15	1	16	15	94			1		7	6	14	6		6	2	3		5			
P																																															
1				54	54	100		2.0	3.3	3.3	100	2		2	100	12	12	100	15	15	100					15	1	16	15	94			2		7	5	14	4		4	2	2		4			
2				60	60	100		2.2	3.6	3.6	100	6	1	7	100	13	13	100	17	17	100					17	1	18	17	94			4		7	7	18	6		6	2	2		4			
3				54	54	100		2.0	3.3	3.3	100	4		4	100	11	11	100	17	17	100					17	1	18	17	94			4		6	6	16	6		6	3	2		5			
4				61	61	100		2.7	3.4	3.4	100	4		4	100	11	11	100	19	19	100					19	2	21	19	90			6		7	7	20	6		6	2	2		4			
5				47	47	100		2.7	1.8	1.8	100					11	11	100	9	9	100			8		8	9		17	9	53			4		6	5	15	4	4	8	2	6		8		
P																																															
6				26	26	100		1.4	1.0	1.0	100	2		2	100	11	8	73	-3					1	2.2		2.3		2.3			3	1	5	4	8	4	25	4	2.8	32	2	25		27		
7	12			18	30	60		8	14	9	5	60	6		4	60	13	1	8	-9			13	2.2	4	39		39			9	6	6	5	8		34		63	63	3	53	4	60			
8	19			19	38	50		5	2.1	1.1	6	50	7		4	50	13	2	15	-9			13	2.1	2	36		36			9	6	8	4	9		36		64	64	2	53	2	57			
9	20			19	39	49		4	2.1	1.3	6	49	5		2	49	13	4	33	-7			14	2.2	2	38		38			7	6	9	5	8		35		51	51	2	43	2	47			
10	11			26	37	70		2	1.5	1.8	13	70	6	3	6	70	12	7	58	-4			13	2.3		36		36			4	3	13	3	7	1	31	3	22	25	2	21		23			
11				45	45	100		1.8	2.5	2.5	100	6	2	8	100	14	14	100	5	5	100			14	8		22	5	27	5	19			10	2	7	6	25	4	4	8	3	5		8		
12		1		36	37	97		1.5	2.1	2.0	97	3		3	97	10	10	97	7	7	97			12		12	7		19	7	37			5	1	7	8	21	5		5	2	3		5		
P																																															
Tot.	67	2		1111	1180			19	491	641			107	15		277			244					80	150	8	238	276	21	535			32	22	150	25	170	103	502	89	245		334	53	241	8	302

Date: Sunday February 10, 1946



## GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON

## HOLTWOOD - SAFE HARBOR SYSTEM

## AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RETAIL CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

HOUR	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA BONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -						
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Ckt's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Fire	Other	Total	% From Maryland	Total	% From Maryland	Total	% From Maryland	Total	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. P P & L Co.	Total	% From Maryland	% From Maryland	Lehman Farm	Met. Ed.	Other	P P & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Farm Maryland	Total	P P & L Co.	Highland Farm Md.	Freq. Chg'r.	Total	
									TOTAL	From Md.	% From Md.										Steam	Hydro	Freq. Chg'r.	Total																					(21)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	
1				50	50	100		2.8	19	19	100	2		2	100	14	14	100	4	4	100	2.7			2.7	4	31	4	13			8	2	11	8	2.9	7			7		6		6	
2				44	44	100		2.6	15	15	100	1		1	100	11	11	100	2	2	100	2.7			2.7	2	29	2	7			10	2	8	6	2.6	5			5	2	2		4	
3				38	38	100		2.9	7	7	100		-2			9	7	78	0 <sup>N</sup>			2.6			2.6	1	27			1		6	2	9	6	2.4	6			6	2	2		4	
4				41	41	100		2.8	11	11	100					9	9	100	1	1	100	2.6			2.6	1	27	1	4			10	2	8	6	2.6	4			4	2	2		4	
5				41	41	100		2.5	13	13	100	2		2	100	10	10	100	2	2	100	2.7			2.7	2	29	2	7			10	2	9	6	2.7	6			6	3	2		5	
6				43	43	100		2.8	15	15	100	2		2	100	12	12	100	1 <sup>N</sup>	1	100	2.5	3		2.8	2	30	1	3	1		10	2	8	5	2.6	5	1		6	3	4		7	
7				57	57	100		2.9	25	25	100	9		9	100	16	16	100	1 <sup>N</sup>	1	100	2.5	6		31	3	34	1	3	2		10	4	9	9	3.4	7	5		12	3	7		10	
P																																													
8				56	56	100		2.6	30	30	100	14		14	100	20	16	80	-7			2.7	2.2		4.9		4.9			7	4	12	6	11	4	4.3	4	5.2		5.6	4	4.6		5.0	
9	40	1		16	57	28	2	3	5.2	16	2.8	17	7	7	2.8	2.4	7	2.8	3	1	2.8	2.6	2.0		4.6	3	4.9	1	2		9	1.4	5	12	4	4.4	4	6.2		6.6	3	5.5		6.0	
10	68	1		4	73	5	8	6	6.0	3	5	17	12	1	5	2.7	1	5	4	-	5	2.6	2.0		4.6	4	5.0				12	1.6	5	11	4	4.8	4	6.1		6.5	6	5.4		6.0	
11	88	1		3	92	3	23		7.1	2	3	17	16	1	3	2.6	1	3	8	-	3	2.7	2.0		4.7	8	5.5				14	1.7	5	12	2	5.0	2	6.2		6.4	5	5.3		5.8	
12	76	2		6	84	7	16	1	6.8	5	7	15	17	2	7	2.6	2	7	7	-	7	2.6	2.0		4.6	7	5.3				13	1.8	4	12	4	5.1	2	6.4		6.6	5	5.5		6.0	
P																																													
1	17			28	45	62	3	2.2	2.0	12	6.2	12		7	6.2	2.0	5	2.5	-11			2.6	1.9		4.5		4.5			11	7	6	6	12	2	4.4		6.1		6.1	4	5.4		5.8	
2	90	9			99		2.6		7.5			13	19		2.5			11			2.6	2.0		4.6	11	5.7				13	2.2	4	11	2	5.2	2	6.0		6.2	6	5.2		5.8		
3	87	5		2	94	2	2.1		7.3	1	2	14	20	1	2	2.6	1	2	10	-	2	2.6	2.1		4.7	10	5.7				13	2.2	3	12	4	5.4	4	5.0		5.4	5	4.4		4.9	
4	86	10			96		3.5		6.2			14	15		2.4			7			2.6	2.3		4.9	7	5.6				13	1.8	4	10	4	4.9	5	5.0		5.5	4	4.6		5.0		
5	81	4			85		5.7	3	2.9			14			2.2			-6			2.6	2.2		4.8		4.8				6	1.3	3	6	1.3	4	4.5	2	6.4		6.6	6	5.6		6.2	
P																																													
6	90	1			91		5.7	3	3.2			15			2.1			-4			2.5	2.1		4.6		4.6				4	1.4	2	5	1.4	6	4.5	5	6.5		7.0	3	5.9		6.2	
7	83	1			84		4.2	3	3.8			16	4		2.1			-3			2.7	2.3		5.0		5.0				3	1.3	9	6	1.3	2	4.6	2	6.7		6.9	4	6.0		6.4	
8	76				76		5.0	1	2.7			15			2.1			-9			2.6	2.2		4.8		4.8				9	1.3	3	6	1.3		4.4		6.7		6.7	4	5.7		6.1	
9	48	5		1	54	2	2.6	1	2.6	1	2	15		-	2	2.0	-	2	-7			2.6	2.2		4.8		4.8				7	1.0	8	6	1.2		4.3		6.7		6.7	4	5.7	2	6.3
10	12		1	19	32	59	2	1.6	1.3	8	6.1	7		4	6.1	1.8	4	2.2	-12			2.6	2.2	2	4.9		4.9			12	6	10	7	1.3		4.8		6.7		6.7	4	5.8	2	6.4	
11				29	29	100		2.0	8	8	100	5		5	100	13	3	2.3	-12			2.6	2.2	2	5.0		5.0			12	5	10	6	1.2		4.5		6.8		6.0	3	5.6	2	6.1	
12				36	36	100		1.9	15	15	100	6		6	100	13	9	6.9	-5			2.4	1.1		3.5		3.5			5	3	13	4	1.0		3.5		6.1		6.1	3	5.2	1	5.6	
P																																													
Tot.	942	40	1	514	1497		367	317	804			242	108		448			-15			624	359	4	987	65	1052				80	175	267	103	265	88	978	76	1054		1130	90	939	7	1036	

✓ 2 of 9  
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Date: Wednesday February 27, 1946

17-17760-48



GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO				DELIVERIES TO P. P & L CO. VIA DONEGAL				DELIVERIES TO P. P & L CO. VIA LEHMAN FARM			DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.			ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO							
	40 Cycle Gen. at S. H.	Freq. Chg'r.	69 Kv Cir's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Firm	Other	Total From Maryland	% From Maryland	Total	% From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman Farm	Met. Ed.		Phil Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen. Generators	Highland Farm Maryland	Total	PP & L Co.	Highland Farm Md.	Freq. Chg'r.	Total					
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total		Firm	Other												PP & L				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)
1	163				163		124	13	29		5	4			13			8			23	4	27	8		35			16		2	18		36		79		79	2	66	6	74		
2	161	2			163		126	2	38		4	9			13			10			24	6	30	10		40			19	1	1	16		37		79		79	2	64	6	72		
3	161				161		110	4	49		5	14			14			15			24	8	32	15		47			19	7		16		42		80		80	2	63	8	73		
4	162	1			163		101	3	61		4	19			15			18			22	8	30	18	1	49			19	15		15		49		79		79	2	62	9	73		
5	160				160		90	8	64		5	22			16			21			24	8	32	21	1	54			19	17		16		52		80		80	2	62	9	73		
6	161				161		111	9	43		6	10			15			12			23	6	29	12		41			19	3		17		39		79		79	2	64	6	72		
7	162	4			166		101	5	64		10	15			17			17			23	5	28	17		45			19	7	1	16		43		80		80	2	65	6	73		
P																																												
8	162	2			164		109	12	46		13	7			21			24			23	24		47	3	50			1	21	2	4	18		46		79		79	3	69	2	74	
9	162				162		92	14	58		15	8			24			6			27	23		50	6	56				21	3	4	21	4	53	4	80		84	5	69		74	
10	160	1			161		86	6	72		15	17			27			10			27	24		51	10	61				21	11	4	21	1	58		78		78	3	69		72	
11	160				160		70	19	75		16	17			27			10			25	24		49	10	59				21	11	4	19		55		81		81	5	68		73	
12	160				160		80	8	74		13	20			28			10			25	22	2	49	10	59				21	10	3	20		54		77		77	3	67	2	72	
P																																												
1	160				160		90	11	61		11	18			21			5			26	24	2	52	5	57				21	10	5	18		54		81		81	3	67	2	72	
2	160				160		76	14	73		15	19			26			12			27	23		50	12	62				21	14	3	20		58		78		78	5	67	2	74	
3	162				162		71	19	74		15	16			27			13			25	24		49	13	62				21	15	2	19		57		79		79	4	67	1	72	
4	161				161		84	11	68		13	15			26			12			26	24	2	52	12	64				21	9	4	20		54		81		81	3	69		72	
5	160				160		72	14	77		14	22			26			13			26	22		48	13	61				21	16	2	19		58		79		79	4	67		71	
P																																												
6	160				160		84	17	62		12	16			22			9			25	24		49	9	53				21	9	3	20	2	55		78		78	4	68	2	74	
7	160				160		94	15	56		12	12			22			6			26	24		50	6	56				21	7	4	21		55		77		77	3	68		71	
8	160				160		95	13	54		13	9			23			5			26	22	2	50	5	55				21	5	4	22		52		80		80	3	65	4	72	
9	160				160		98	12	52		13	12			23			5			26	23	2	51	5	56				21	7	4	21		53		78		78	3	67	2	72	
10	161				161		108	13	42		11	7			19			0(N)			26	24	2	52	1	53			1	21	3	5	20		50		80		80	3	67	4	74	
11	161				161		92	17	56		9	17			19			8			26	23	6	55	8	63				21	13	2	20		56		78		78	3	64	6	73	
12	162				162		114	13	38		6	11			15			5			7	23	5	37	5	42				20	3	2	18		43		81		81	2	63	4	69	
P																																												
Tot.	3861	10			3871		2278	272	1386		255	336			499			232	(N)		421	560	68	1049	234	2	1285			2	446	198	63	451	7	1207	4	1901		1905	73	1587	81	1741

Date: March 14, 1946 Thursday



GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -			DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -																			
	40 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Cir's.	Maryland	Total	% From Maryland	Magland	Freq. Chg'r.	69 KV CIRCUITS			Firm	Other	Total	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. P P & L Co	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.		P P & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Farm Maryland	Total	P P & L Co.	Highland Farm Md.	Freq. Chg'r.	Total												
									TOTAL	From Md.	% From Md.											Steel	Hydro	Freq. Chg'r.	Total							(31)	(31a)													(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)
1				38	38	100		2.5	12	12	100	3		3	100	11	9	82	-3			26	13		39		39			3	2	12	3	96		36		33		33	3	26	29														
2				34	34	100		2.2	11	11	100					10	10	100	-1			26	10		36	2	38			3		14	2	16		35		10		10	3	6	29														
3			1	43	44	98		3.0	12	12	100		-2			10	9	86	2	2	86	26			26	2	28	2	7			6	2	18		26		6		6	3	2	5														
4				31	31	100		2.3	8	8	100		-3			10	7	73	-2			26	7		33	1	34			3		8	2	17		31		10		10	3	7	10														
5			1	25	26	96		1.8	5	5	100		-1			8	5	63	-4			26	13		39		39			4		12	2	16		34		10		10	3	6	9														
6				37	37	100		2.9	7	7	100		-1			10	7	70	-4			26	13		39		39			4	1	9	3	17		34		29		29	2	25	27														
7				42	42	100		2.5	15	15	100	6		6	100	13	9	69	-4			26	13		39		39			4	1	11	4	17		37		27		27	3	22	25														
P																																																									
8	30			26	56	46		2.3	32	15	46	9		4	46	20	9	46	1	-	46	26	12		38	2	40			1	5	7	4	19		36		39		39	5	34	39														
9	77	6		83			40	2	42			14				23			3			26	10		36	3	39				9		5	22		36		61		61	5	52	57														
10	117	5		122			68		54			17	6	7		25			5			26	11		37	5	42				14		4	21		39		71		71	5	61	66														
11	105	6		111			57		54			17	6			27			5			26	12		38	5	43				14		5	21		40		79		79	4	67	71														
12	92	2		94			52		46			15	1			24			3			26	12		38	3	41				11		4	22		37		78		78	4	66	70														
P																																																									
1	39	1		1	41	2	7	5	31	1	2	11		-	2	20	-	2	-2			26	11		37		37			2	9		5	20		36		76		76	4	68	72														
2	86	5			91		42	5	45			15				24			3			26	12		38	3	41				11		4	22		37		79		79	4	67	71														
3	103	7			110		59		54			14	3			25			7			27	11		38	7	45				13		4	23		40		77		77	5	66	71														
4	105	1			106		48	5	51			14	5			25			5			26	12		38	5	43				14		4	21		39		79		79	5	68	73														
5	71	1			72		26	6	42			9				23			4			26	12		38	4	42				11		4	22		37		80		80	5	68	73														
P																																																									
6	48	2		4	54	7	14	5	34	2	7	6		-	7	21	1	7	4	-	7	26	11		37	4	41				11	2	4	22		39		71		71	3	63	66														
7	44	3			47		9	4	36			10				20			4			26	11		37	4	41				11		3	23		37		78		78	3	67	70														
8	65	5			70		26		44			12				21			7	0		26	12		38	7	45				13	3	4	23		43		79		79	4	68	72														
9	49	7			56		16	1	40			10				22			5			26	11		37	5	42				11	2	3	22		38		77		77	4	69	73														
10	41	1		1	43	2	3	3	38	1	2	10		-	2	20	-	2	6	-	2	26	12		38	6	44				11	4	3	21		39		78		78	3	65	68														
11	21			23	44	52		14	31	16	52	7			4	52	17	9	52	3	2	52	26	11		37	3	40	2	5		7	6	3	21		37		71		71	4	63	67													
12				44	44	100		2.7	15	15	100	4		4	100	12	11	92	0			26	12		38	2	40			2	3	9	3	20		37		55		55	3	46	49														
P																																																									
Tot.	1093	52	2	349	1496		467	272	759			203	14			441			47			625	264		889	73	962			26	182	105	85	482		880		1353		1353	90	1152	1242														

$\downarrow \frac{12}{14}$  of 10       $\downarrow \frac{12}{14}$  of 2  
 $\downarrow \frac{8}{14}$  of 10

Date: Thursday April 25, 1946



GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -							SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -							ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -												
	60 Cycle Gen. at S.H.	Freq. Chg'r.	69 Kv Cir's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Fire	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. & L Co	Total	From Maryland	% From Maryland	Lehman Farm	Mat. Ed.			Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Trans- mission Maryland	Total	PP & L Co.	Highland Trans- Mn.	Freq. Chg'r.	Total										
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total							(31)	(32)	(33)										(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)

1				31	31	100		21	11	11	100	-2			11	9	85	-N	P		26	12		38	1		39			2	2	13	2	21		40		30		30	2	23		25		
2				33	33	100		12	19	19	100	2		2	100	11	11	100	7	7	100	26	4		30	7		37	7	19		14	1	19		34		5		5	2	4		6		
3				44	44	100		25	17	17	100	-2			11	10	89	6	5	89	26			26	6		32	6	19		11	1	17		29			3	3		3		3			
4				57	57	100		29	27	27	100	3		3	100	11	11	100	10	10	100	25			25	10		35	10	29		16		15		31			2	2		3		3		
5				53	53	100		28	24	24	100	7		7	100	11	11	100	7	7	100	27			27	7		34	7	21		15	1	16		32			3	3		3		3		
6				40	40	100		22	17	17	100				11	11	100	5	5	100	26	2		28	5		33	5	15		12	2	16		30			4		4	2		3			
7				22	22	100		8	14	14	100	3		3	100	12	11	92	-2			26	13		39			39			2	1	13	3	17		36			9		9	3	6		9
P																																														
8	23			8	31	26	7	15	5	1	26	1		-	26	13	1	8	-10			26	25		51			51			10	4	10	5	18		47		10		10	4	6		10	
9	25	1		2	28	7	12	8	11	1	7	5		-	7	15	1	7	-10			26	24		50			50			10	7	7	5	19		48		40		40	4	32		36	
10	24	3			27		9		21			10				16			-5			26	23		49			49			5	9	7	5	18		45		63		63	4	56		59	
11	20	1		1	32	3	12	2	17	1	3	6		-	3	18	1	3	-7			26	21		47			47			7	10	2	5	19		43		67		67	4	57		61	
12	31			2	33	6	6	5	23	1	6	10		1	6	16	-	6	-4			25	23		48			48			4	10	8	5	19		46		70		70	4	59		63	
P																																														
1	20			12	32	38	16	18	7	38	9			3	38	15	4	27	-6			26	23		49			49			6	7	7	5	19		44		65		65	4	58		62	
2	11			20	31	65	21	11	7	65	7			5	65	13	2	15	-8			25	22		47			47			8	7	8	4	18		45		56		56	5	47		52	
3	20			18	38	47	1	19	19	9	47	8		4	47	14	5	36	-3			26	17		43			43			3	6	10	4	17		40		37		37	5	31		36	
4	22			7	29	24	3	11	15	4	24	5		1	24	13	3	23	-4			26	12		38			38			4	5	10	4	14		37		36		36	3	30		33	
5	24			8	32	25	4	12	17	4	25	7		2	25	14	2	14	-4			27	12		39			39			4	5	8	3	13		33		39		39	4	31		35	
P																																														
6	36			9	45	20	4	23	20	4	20	8		2	20	13	2	15	-1			25	12		37			37			1	5	11	4	14		35		35		35	4	31		35	
7	44			2	46	4	10	21	16	1	4	7		-	4	14	1	4	-4			26	13		39			39			4	7	7	4	13		35		39		39	3	31		34	
8	70				70		35	9	26			8				17						27	12		39			39				10	6	4	16		36		36		36	4	31		35	
9	65				65		29	11	28			9				19						26	13		39	2		41				9	9	4	15		37		38		38	3	32		35	
10	37				37		5	13	19			6				15						27	12		39			39			2	7	9	3	15		36		40		40	4	33		37	
11	8			20	28	71	13	15	11	71	6			4	71	12	7	58	-4			26	13		39			39			4	4	10	4	13		35		38		38	3	34		37	
12				37	37	100	21	12	12	100	-1				11	10	92	2	2	91			9	13		22	3		25	2	8	1	1	6	2	14		24		37		37	2	32		34
P																																														
Tot.	490	5		426	921		137	365	422			127	-5		326			-36			607	321		928	41		969			77	116	229	80	396		878		794	8	802	82	663		745		

$\frac{1}{13}$  of 11  
 $\frac{1}{13}$  of 11  
 $\frac{1}{13}$  of 11  
 $\frac{1}{13}$  of 11

Date: Saturday April 27, 1946



## GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON

## HOLTWOOD - SAFE HARBOR SYSTEM

## AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -								
	60 Cycle Gen. at S.H.	Freq. Chg.	60 Kv Circ.	Maryland	Total	% From Maryland	Maryland	Freq. Chg.	60 KV CIRCUITS			Fire	Other	Totally From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Mt. Ed. & L Co	Total	From Maryland	% From Maryland	Lehman Farm	60 KV		PP & L	Phil. Elec.	Freq. Chg.	Total	Freq. Chg.	25 Cycle Gen- erators	Highland Farm Maryland	Total	PP & L Co.	Highland Farm Md.	Freq. Chg.	Total		
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg.	Total							31a	31b													32	33
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(31b)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)		
1			34	34	100		7	26	26	100	6		6	100	11	11	100	6	6	100	26	6		32	7		39	6	15	1		22	1	14		38		11		11	3	6		9			
2		1	46	47	98		8	38	37	98	7	4	11	98	13	13	98	14	14	98	26			26	14		40	14	35			24		14		38			3	3	3			3			
3			41	41	100		21	21	21	100	2		2	100	13	13	100	8	8	100	26			26	8		34	8	324			10	1	15		32			3	3	3			3			
4			55	55	100		26	27	27	100	6		6	100	12	12	100	10	10	100	26			26	10	1	37	10	27			18		17		35			2	2	3			3			
5			50	50	100		25	25	25	100	3		3	100	12	12	100	9	9	100	26			26	9	1	36	9	25			14		19		33			4	4	3			3			
6			54	54	100		18	35	35	100	6		6	100	13	13	100	11	11	100	26			26	11		37	11	30			16	1	14		31		6		6	3	1		4			
7			67	67	100		20	45	45	100	5		5	100	21	21	100	12	12	100	26	2		28	12		40	12	30			1	14	2	20		37		29		29	5	23		28		
P																																															
8	18	1		26	45	58		9	36	21	58	7		4	58	22	13	58	2	1	58	26	15		41	2		43	1	2			6	10	4	20		40		54		54	5	44		49	
9	25	1			76		35	5	38			12			24				1			27	21		48	2		50			1	12	7	5	23		48		58		58	5	49		54		
10	96	2			98		51	2	47			18			26				3			26	22		48	3		51				15	6	5	21		47		61		61	6	50		56		
11	96				96		52	4	40			16			24				1			27	22		49	1		50				14	6	5	21		46		60		60	5	50		55		
12	60	8			68		37		30			10			18				0			26	24		50	1		51				1	12	8	4	21		46		61		61	4	52		56	
P																																															
1	46			7	53	13	14	13	29	4	13	5		1	13	21	3	13	-2			27	23		50			50				2	10	10	5	20		47		61		61	5	51		56	
2	76				76		32	11	34			9			23				1			26	23		49	1		50				12	8	5	20		45		59		59	5	51		56		
3	60	4			64		29	3	34			14			21				-2			26	25		51			51				2	12	12	5	18		49		63		63	5	51		56	
4	45	8			53		29	1	23			8			19				-4			26	22		48			48				4	11	9	5	17		46		60		60	6	52		58	
5	49	1			50		24	4	23			5			18				-2			27	23		50			50				2	11	8	4	21		46		63		63	4	51		55	
P																																															
6	55	9			64		37		28			4			19						25	24		49			49					12	6	4	21		43		66		66	5	55		60		
7	41	10			51		31		30			5			20				1		25	23		48	1		49					11	11	5	21		48		63		63	4	54		58		
8	52	11			63		36		28			5			21				-1		26	24		50	7		51					2	12	7	5	21		47		61		61	5	51		56	
9	47	9			56		31		26			8			18				-1		26	23		49			49					1	11	8	4	20		44		61		61	4	53		57	
10	19	2		10	31	32	3	7	25	8	32	8		3	32	16	5	32	0		26	25		51	1		52					1	9	14	3	21		48		63		63	3	52		55	
11	1			37	38	97		25	12	12	97	3		3	97	12	9	75	-4		26	24		50			50					4	5	17	4	18		48		59		59	4	52		56	
12		2		27	27	93		9	19	18	93	2		2	93	10	9	93	3	3	93	26	12		38	4		42	3	7			1	2	20	2	15		40		29		29	3	23		26
P																																															
Tot.	836	69		454	1359		431	218	719		174	4		427		66		626	383	1009	88	21099									22	178	291	79	452		1022		1048	12	1060	101	871		972		

Date: Tuesday, May 7, 1946



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -					DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.						ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -			
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Cir's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Firm	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman Farm	Met. Ed.		PP & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen's	Highland town Maryland	Total	PP & L Co.	Highland town Md.	Freq. Chg'r.	Total		
									TOTAL	From Md.	% From Md.														Steam	Hydro	Freq. Chg'r.	Total		Firm	Other														
1	161	3			169		133	1	36			5	10			12			6					26	24		50	6	56			21	15	2	18	56		84	84	2	75	75			
2	161	3			164		110	3	51			5	18			14			13					26	24		50	13	63			21	20		16	57		84	84	2	74	76			
3	161				161		93	15	56			5	19			14			16					20	24		44	16	61			21	21		15	57		84	84	1	74	75			
4	162				162		82	16	65			5	19			16			22					15	25		40	22	63			21	19		16	56		84	84	2	74	76			
5	163				163		75	19	71			8	22			17			26					15	25		40	26	67			21	23		17	61		83	83	3	75	78			
6	163				163		86	14	65			11	16			19			16					16	24		40	16	57			21	19		17	57		84	84	3	74	77			
7	163				163		91	17	54			13	10			22			9					27	25		52	9	61			21	18	3	15	57		84	84	4	72	76			
P																																													
8	164				164		89	20	54			13	5			24			7					27	24		51	7	58			21	9	4	17	51		83	83	3	72	75			
9	160				160		90	19	57			15	7			25			7					26	25		51	7	58			21	16	4	16	57		85	85	4	70	74			
10	163				163		93	14	56			15	7			26			6					27	24		51	6	57			21	13	4	13	51		82	82	3	73	76			
11	163				163		84	18	60			14	7			26			8					26	24		50	8	58			21	15	4	17	57		84	84	4	71	75			
12	165	2			167		112	7	51			12	9			23			6					27	25		52	6	58			21	13	4	16	54		82	82	4	72	76			
P																																													
1	162	1			163		105	2	56			13	7			24			8					27	24		51	8	59			21	14	3	16	54		85	85	4	71	75			
2	164	7			171		110	1	62			13	9			25			9					26	25		51	9	60			21	15	4	15	55		84	84	3	71	74			
3	160				160		101	6	55			12	7			24			9					27	25		52	9	61			21	15	3	16	55		82	82	4	72	76			
4	161				161		100	5	57			13	10			23			8					26	24		50	8	58			21	17	3	12	53		83	83	4	72	76			
5	166				166		100	15	49			11	11			19			7					27	24		51	7	58			21	17	3	14	55		83	83	4	72	76			
P																																													
6	160	2			162		116	2	46			10	9			16			7					26	24		50	7	57			21	16	2	13	52		83	83	3	72	75			
7	163	8			171		135		36			11	8			17			3					26	25		51	3	54			21	13	3	13	50		84	84	3	72	75			
8	161	14			175		134		44			12	7			19			5					27	24		51	5	56			21	13	3	14	51		84	84	3	73	76			
9	163	24			187		130		58			11	12			21			10					26	24		60	10	60			21	15	3	15	54		83	83	3	72	75			
10	163	28			191		137		54			8	12			18			10					27	25		52	10	62			21	18	2	14	55		83	83	4	73	77			
11	163	26			189		152		39			7	12			16			6					26	25		51	6	57			21	16	2	14	53		84	84	2	74	76			
12	164	23			187		166		22			6				10			1					16	24		40	1	41			21	1	2	12	36		83	83	2	73	75			
P																																													
Tot.	3899	146			4045		2624	194	1254			248	468			470			225					585	586		1171	225	4	1400			504	371	58	361	1294		2004	2004	74	1743	1817		

Date: May 23, 1946 Thursday



# GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON HOLTWOOD - SAFE HARBOR SYSTEM

AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -			DELIVERIES TO P P & L CO. VIA DONEGAL			DELIVERIES TO P P & L CO. VIA LEHMAN FARM			DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.			ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -			SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -										
	60 Cycle Gen. at S.H.	Freq. Chg'r.	50 Kv Cir's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Firm	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman Farm	Met. Ed. & P P & L Co	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed. & P P & L Co	Total	From Maryland	% From Maryland	25 Cycle Gen- erators	Highland Town Maryland	Total	P P & L Co.	Highland Town Md.	Freq. Chg'r.	Total		
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total																			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12+)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)
1	162	26			188		138	51			5	16			14			16			10	24	34	16	1	51			20	16		12	48		83	83	2	74		76				
2	163	23			186		114	72			5	22			14			27				24	24	27	2	53			19	19		11	49		81	81	2	73		75				
3	163	24			187		92	96			5	31			19			35				26	25	35	5	65			19	29		11	59		83	83	2	74		76				
4	164	13			177		79	99			5	32			18			35				24	24	35	3	62			20	29		10	59		84	84	2	74		76				
5	162	5			167		72	98			6	31			18			35				24	24	35	4	63			20	27		11	58		85	85	2	74		76				
6	162	16			178		82	96			8	30			31			32				24	24	32	2	59			19	27		10	56		81	81	2	73		75				
7	163	27			190		105	86			9	22			21			30				24	24	30	2	56			19	23		12	54		81	81	2	73		75				
P																																												
8	163	28			191		118	76			13	15			21			25			3	25	28	25	1	54			20	16		12	48		83	83	3	71		74				
9	167	26			193		130	61			14	14			21			15			17	24	41	15	56			21	19	1	12	53		82	82	3	72		75					
10	166	26			192		148	44			13	8			18			4			27	24	51	4	55			21	14	3	12	50		82	82	2	72		74					
11	167	28			192		151	42			11	8			18			4			27	24	51	4	55			21	15	4	12	52		83	83	3	72		76					
12	161	28			189		155	40			9	10			16			3			26	24	50	3	63			21	13	2	11	47		82	82	3	71		74					
P																																												
1	165	24			187		169	18			7	1			14			-3(4)			26	25	51	1	52			4	22	6	4	12	48		84	84	2	72		74				
2	162	25			187		172	18			6				13			-4			26	24	50		50			4	21	5	4	11	45		82	82	3	73		76				
3	162	26			192		170	21			7	3			13			-3			26	24	50		50			3	21	10	4	10	48		82	82	3	72		75				
4	164	27			191		170	21			8	24			13			-3			26	23	49		49			3	21	7	3	10	44		84	84	2	72		74				
5	164	25			189		172	20			10	3			12			-4			26	25	51		51			4	21	9	4	12	50		80	80	2	72		74				
P																																												
6	163	24			187		164	24			10	5			12			-1			26	24	50		50			1	21	9	3	10	44		82	82	2	72		74				
7	163	22			185		148	38			10	12			14			3			27	25	52	3	55				21	16	2	10	49		83	83	2	71		73				
8	163	19			182		169	13			11				14			-7			27	24	51		51			7	21	5	5	10	48		81	81	3	72		75				
9	162	19			181		171	11			8				13			-7			26	23	49		49			7	21	3	4	11	46		82	82	1	73		74				
10	162	22			184		165	22			8	4			12			-3			27	24	51		51			3	21	9	4	11	48		81	81	1	73		74				
11	164	25			189		159	32			6	13			13			1			25	24	49	1	50				21	12	2	11	46		83	83	2	73		75				
12	164	26			190		149	38			4	17			11			4			28	24	52	4	56				21	17	2	9	49		83	83	1	73		74				
P																																												
Tot.	3922	554			4476		3362	1137			198	501			373			234(4)			426	579	1005	270	21	1296			36	493	355	51	263		1198		1977	1977	52	1742		1794		

Date: May 25, 1946 Saturday



GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -					DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -												
	60 Cycle Gen. at S.H. (1)	Freq. Chg'r (2)	60 Kv. Circ's (3)	Maryland (4)	Total (5)	% From Maryland (6)	Maryland (7)	Freq. Chg'r (8)	69 KV CIRCUITS			Firm (12)	Other (12a)	Total From Maryland (13)	% From Maryland (14)	Total (15)	From Maryland (16)	% From Maryland (17)	Total (18)	From Maryland (19)	% From Maryland (20)	60 CY. GENERATORS AT HOLTWOOD				Lehman F. (25)	Met. Ed. & L Co. (26)	Total (27)	From Maryland (28)	% From Maryland (29)	Lehman Farm (30)	Met. Firm (31)	Ed. Other (31a)	PP & L (32)	Phil. Elec. (33)	Freq. Chg'r (34)	Total (35)	Freq. Chg'r (36)	25 Cycle Gen- erators (37)	Highland Town Md. (38)	Total (39)	PP & L Co. (40)	Highland Town Md. (41)	Freq. Chg'r (42)	Total (43)			
									TOTAL (9)	From Md. (10)	% From Md. (11)											Steam (21)	Hydro (22)	Freq. Chg'r (23)	Total (24)																							
1				46	46	100		25	21	21	100	5	1	6	100	12	12	100	5	5	100	27			27	5	32	5	16			11	1	12	6	30	5		5	2	2		4					
2				44	44	100		27	16	16	100	5		5	100	9	9	100	4	4	100	26			26	4	30	4	13			11	1	11	4	27	4		4	2	2		4					
3				43	43	100		31	12	12	100	3		3	100	7	7	100	2	2	100	26			26	2	28	2	7			8	2	10	4	24	5		5	2	2		4					
4				40	40	100		25	14	14	100	5	3	8	100	8	6	75	-2			27			27		27			2	6	1	12	5	26	4		4	2	1		3						
5				28	28	100		17	11	11	100	5	1	6	100	8	5	63	-2			26			26		26			2	4	2	10	4	22	4		4	2	1		3						
6			1	29	30	97		25	5	5	100	1	0	1	100	7	4	57	-3			26			26		26			3	2	1	10	6	22	4		4	2	2		4						
7				48	48	100		28	19	19	100	5	4	9	100	12	10	83	-2			26			26	1	27			3	10	2	9	8	27	2		2	1	1		2						
P																																																
8				47	47	100		29	18	18	100	4		4	100	13	13	100	-2	(W)		26			26	1	27			3	10		10	2	25	3		3	2			2						
9				39	39	100		28	12	12	100	6		6	100	14	6	43	-6	(W)		26			26	1	27			7	2		10	2	21	1		1	2			2						
10				45	45	100		31	11	11	100	5		5	100	13	6	46	-8			26			26		26			8	2		11	3	24	2		2	2			2						
11				40	40	100		27	13	13	100	4		4	100	14	9	64	-7			26			26		26			7	4		10	4	25	4		4	2	1		3						
12				34	34	100		23	10	10	100	6		6	100	13	4	31	-10			26			26		26			10			10	6	26	4		4	2	1		3						
P																																																
1				35	35	100		25	10	10	100	7		7	100	12	3	25	-7	(W)		26			26	1	27			8	2		10	4	24	3		3	2	1		3						
2				36	36	100		23	13	13	100	6		6	100	11	7	64	-4			26			26		26			4	6		10	4	24	4		4	3	2		5						
3				38	38	100		22	16	16	100	6		6	100	11	11	100	1	1	100	27			27	1	28	1	4			10		9	4	23	5		5	2	2		4					
4				27	27	100		14	13	13	100	7		7	100	11	6	55	-3	(W)		26			26	1	27			4	4		10	8	26	3		5	2	3		5						
5				42	42	100		27	15	15	100	7		7	100	11	8	73	-2	(W)		26			26	1	27			3	8	1	10	4	26	6		6	2	2		4						
P																																																
6				51	51	100		29	22	22	100	8	1	9	100	11	11	100	2	2	100	24			24	4	28	2	7	2		6	2	9	4	23	4		4	3	1		4					
7	12	0	3	20	35	57	7	19	7	4	63	2		1	63	11	3	27	-8			27	10		37		37			8	2	6	4	11	2	33	2	22		24	3	21		24				
8	18	1		4	23	17	5	12	6	1	17	4		1	16	13			-10			26	13		39		39			10	5	5	5	13	1	39		38	3	32		35						
9				30	30	100		17	13	13	100	4		4	100	13	9	69	-3	(W)		27	6		33	1	34			4	8	3	11	4	30	2	10		42	3	8		11					
10				27	27	100	1	9	17	17	100	4		4	100	11	11	100	2	2	100	26			26	2	28	2	7			7	3	10	7	27	6		33	2	2		4					
11				60	60	100		28	31	31	100	6	7	13	100	13	13	100	7	7	100	27			27	7	34	7	21			14	1	10	4	29	4		33	4			4					
12				60	60	100		27	33	33	100	4	3	7	100	12	12	100	9	9	100	25			25	9	34	9	26			16		9	4	29	5		34	4	1		5					
P																																																
Tot.	30	1	4	913	948		13	568	358			119	20			270			-47			627	29		656	41	697			88	7	162	29	247	99	632	88	70		158	56	88		144				

Date: September 16, 1946 Sunday



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

**Values Are In Megawatthours**

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -			DELIVERIES TO P P & L CO. VIA DONEGAL		DELIVERIES TO P P & L CO. VIA LEHMAN FARM		DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.		ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -							SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -														
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Cir's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Firm	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLT'D.				Lehman F.	Met. Ed. & P.P. & L. Co	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.		P.P. & L.	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Farm Maryland	Total	P.P. & L. Co.	Highland Farm Md.	Freq. Chg'r.	Total		
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total							Firm	Other													(31)	(31a)
1				35	35	100		20	15	15	100	1		1	100	10	10	100	5	5	100	27			27	5		32	5	16			10	2	11	9	32	7			7	4	1		5		
2				44	44	100		16	27	27	100	4	2	6	100	12	12	100	9	9	100	25			26	9		34	9	26			15		9	5	29	6			6	4	2		6		
3				41	41	100		23	18	18	100	4		4	100	11	11	100	4	4	100	26			26	4		30	4	13			12	1	9	6	28	4			4	4	1		5		
4				46	46	100		27	19	19	100	2		2	100	9	9	100	4	4	100	25			25	4		29	4	14			11	2	8	7	28	6			6	4			4		
5				41	41	100		27	12	12	100		-1			12	11	92	OM				26			26	1		27			1		5	2	10	6	24	5			5	3	2		5	
6				70	70	100		29	41	41	100	7	2	9	100	18	16	100	9	9	100	26			26	9		35	9	26			14	2	12	5	33	5			5	4	1		5		
7				92	92	100		29	62	62	100	12		12	100	24	24	100	17	17	100	26			26	17		43	17	40			14	2	16	4	36	4			1	5			5		
P																																															
8				124	124	100		30	92	92	100	15	17	32	100	32	32	100	22	22	100	26	10		36	22		58	22	38			2	30	2	21	3	58	2	7	2	11	4			2	6
9	10			95	105	90		24	84	76	90	19	16	32	90	34	31	90	14	15	90	26	14	10	50	14		64	13	20			4	28	4	21		57		29		29	7	12	10	29	
10	31			81	112	72		24	88	63	72	17	19	26	72	33	34	72	16	12	72	26	13	8	47	16		63	12	19			7	28	4	21		60		41		41	6	25	10	41	
11	25			68	93	73		18	76	58	73	16	15	23	73	32	23	73	11	8	73	26	13	12	51	11		62	8	13			6	28	4	20		58		48		48	5	29	10	44	
12	2	1		44	53	83		6	50	42	83	16	5	17	83	24	20	83	6M	5	83	26	14		40	8		48	5	10			2	2	16	5	20		45		10		10	4	2	2	8
P																																															
1	18			90	108	83		27	81	67	83	16	16	27	83	32	27	83	14	12	83	27	13	6	46	14		60	12	20			3	29	3	19		54		20		20	6	7	8	21	
2	30			75	105	71		26	79	56	71	15	17	23	71	30	21	71	14	10	71	26	13	10	49	14		63	10	16			6	28	4	19		57		40		40	5	23	8	36	
3	22			69	91	76		25	68	52	76	15	13	21	76	29	22	76	11	8	76	26	13	7	46	11		57	8	14			5	25	4	21		55		39		39	5	22	10	37	
4				57	57	100		26	30	30	100	7		7	100	24	23	96	-2M				27	14	2	43			43			2	2	9	5	20		38		24		24	5	14	4	23	
5				60	60	100		24	34	34	100	7		7	100	21	21	100	4M	4	100	27	7	2	36	5		41	4	10			1		8	4	20	4	27	2	7		9	5	3		8
P																																															
6				73	73	100		26	46	46	100	13		13	100	21	21	100	12	12	100	25			25	12		37	12	32				10	2	17	6	35	6			6	4			4	
7	13			38	51	75		17	25	26	75	7		5	75	22	17	75	4	3	75	27	7		34	4		38	3	8			2	4	4	21	2	33	2	8		10	4	4		8	
8	9			35	44	80		13	32	26	80	9		7	80	23	19	83	-2				26	12	2	40			40			2	2	8	5	22	1	40		15		16	5	6	3	14	
9				53	53	100		20	32	32	100	9		9	100	22	22	100	3M	3	100	26	8		34	4		38	3	8			1		8	4	21		34	1	4	2	7	4		1	5
10				77	77	100		27	50	50	100	13	3	14	100	22	22	100	12	12	100	27			27	12		39	12	31				11	2	20	3	36	2			2	4	5		5	
11				69	69	100		28	40	40	100	9	2	11	100	17	17	100	12	12	100	26			26	12		38	12	32				8	1	19	7	35	7			7	3	1		4	
12				50	50	100		21	29	29	100	6	1	7	100	13	13	100	6	6	100	26			26	6		32	6	19				7	1	16	5	29	4			4	4			4	
P																																															
Tot.	166			1537	1694			552	1140			239	127			527			265			627	151	59	837	214		1051				9	41	366	69	413	73	971	63	292	7	362	109	155	68	332	

$$4 \frac{12}{13} \text{ of } 12$$

Date: September 16, 1946 Monday



# GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON HOLTWOOD - SAFE HARBOR SYSTEM

AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

**Values Are In Megawatthours**

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -								
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Circ's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Fire	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLT'D.				Lehman F.	Met. Fd. & P P & L Co	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.		P P & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Maryland	Total	P P & L Co.	Highland Farm	Freq. Chg'r.	Total		
									TOTAL	From Md.	% From Md.											Stream	Hydro	Freq. Chg'r.	Total							(31)	(32)													(33)	(34)
1				52	52	100		22	29	29	100	6	2	8	100	14	14	100	7	7	100	27			27	7		34	7	21			8	1	19	4	32	4			4	4			4		
2				54	54	100		25	29	29	100	5	4	9	100	13	13	100	7	7	100	26			26	7		33	7	21			9	2	14	6	31	4			4	4			4		
3				45	45	100		21	24	24	100	6		6	100	12	12	100	6	6	100	27			27	6		33	6	18			8	1	16	4	29	4			4	4			4		
4				55	55	100		26	29	29	100	5	2	7	100	13	13	100	7	7	100	27			27	7		34	7	21			10	1	17	5	33	4			1	5	4			4	
5				61	61	100		28	32	32	100	8	1	9	100	14	14	100	8	8	100	25			25	8		33	8	24			8	1	17	3	29	4			4	4			4		
6				77	77	100		29	47	47	100	11	3	14	100	18	18	100	13	13	100	27			27	13		40	13	33			10	2	18	4	34	3			1	4	4			4	
7				94	94	100		22	71	71	100	15	6	21	100	27	27	100	19	19	100	25		1	26	19		45	19	42			18	1	19	4	42	2			3	5	5			5	
P																																															
8				116	116	100		29	87	87	100	16	15	31	100	32	32	100	21	21	100	26	5	7	38	21		59	21	36			3	27	2	23		55		30		30	6	17	8	31	
9	18			89	107	83		28	81	67	83	18	15	27	83	31	26	83	14	12	83	26	12	10	48	14		62	12	19			5	27	4	21		59		40		40	5	21	10	36	
10	44			62	106	58		22	84	49	58	18	14	19	58	32	19	58	14	8	58	26	12	10	48	14		62	8	13			8	25	4	23		60		50		50	6	28	12	46	
11	39			63	102	62		24	79	49	62	18	16	21	62	32	20	62	14	9	62	26	11	10	47	14		61	9	15			8	24	4	20		56		55		55	5	36	10	51	
12	20			44	64	69		20	45	31	69	15	1	11	69	23	16	69	14	1	69	26	14	4	44	6		50	1	2	5	3	17	5	17		47		22		22	6	12	5	23		
P																																															
1	13			87	100	87		23	79	69	87	15	18	29	87	30	26	87	13	11	87	26	14	8	48	13		61	11	18			4	28	3	20		55		29		35	6	13	8	27	
2	44			56	100	56		20	79	44	56	17	16	18	56	30	17	56	13	7	56	26	12	10	48	13		61	7	11			9	24	4	20		57		60		63	6	40	12	58	
3	41			55	96	57		23	77	44	57	15	16	18	57	28	16	57	14	8	57	26	13	10	49	14		63	8	13			8	26	3	21		58		61		61	5	42	10	57	
4	40	2		31	73	42		20	54	23	42	16	5	9	42	27	11	42	7	3	42	26	12	6	44	7		51	3	6			8	14	4	21		47		57		57	6	41	6	53	
5		3		48	51	94		15	35	33	94	14		13	94	21	20	94	2	2	94	26	13	3	42	2		44	2	5			4	12	4	21		41		37		37	4	24	4	32	
P																																															
6				51	51	100		22	30	30	100	4		4	100	19	19	100	7	7	100	26	3		29	7		36	7	19				4	3	20	6	33	6	3		3	5	2		7	
7	21			32	53	60		19	35	21	60	7		4	60	22	13	60	14	1	60	26	11		37	2		39	1	3	1	3	5	4	21	4	38	3	10		10	4	6		10		
8	4			41	45	91		12	33	30	91	12		11	91	22	19	86	0W			26	13	2	41	1		42				1	2	10	5	21		39		26		26	4	16	3	23	
9				49	49	100		20	28	28	100	6		6	100	22	22	100	-2			26	13		39			39			2		8	4	21		35		6		6	6	2	1	9		
10				74	74	100		23	48	48	100	10	5	17	100	21	21	100	12	12	100	26			26	12		38	12	32				7	2	20	4	33	4			4	4			4	
11				64	64	100		25	38	38	100	9	3	12	100	18	18	100	7	7	100	27			27	7		34	7	21				4	2	20	6	32	5			5	4	1		5	
12				50	50	100		23	27	27	100	8	5	13	100	13	13	100	4	4	100	25			25	4		29	4	14				4	2	16	5	27	3			1	4	3			3
P																																															
Tot.	284	5		1450	1739			541	1200			276	147			534		2094				626	158	81	865	218		1033				9	65	337	68	466	55	1000	46	486	6	538	114	301	89	504	

Date: September 17, 1946 Tuesday



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

**Values Are In Megawatthours**

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -						
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Circ'r.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Fire	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. P P & L Co.	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.		P P & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Tenn Maryland	Total	P P & L Co.	Highland Tenn Md.	Freq. Chg'r.	Total
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total							Fire	Other												
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	
1			48	48	100		23	25	25	100	7		7	100	12	12	100	4	4	100	26			26	4		30	4	13			2	2	19	5	28	6			6	4			4	
2			64	64	100		22	40	40	100	9	11	19	100	14	14	100	8	8	100	26			26	8		34	8	24			10	1	16	4	31	2			2	4			4	
3			57	57	100		26	31	31	100	6	6	12	100	13	13	100	6	6	100	26			26	6		32	6	19			7	2	17	3	29	5			1	6	3			3
4			60	60	100		26	34	34	100	8	9	17	100	13	13	100	7	7	100	26			26	7		33	7	21			9	1	14	6	30	3			1	4	4			4
5			52	52	100		24	27	27	100	5		5	100	16	16	100	6	6	100	26			26	6		32	6	19			10	2	15	4	31	4			4	4			4	
6			67	67	100		27	39	39	100	12		12	100	18	18	100	10	10	100	25			25	10		35	10	29			8	2	17	4	31	2			1	3	4			4
7	2		77	79	97		21	56	54	97	13		13	97	25	24	97	15	15	97	26			26	15		41	15	37			10	2	21	4	27	4			21	6	6			6
P																																													
8	10		109	119	92		29	92	85	92	17	16	30	92	32	29	92	23	21	92	26	4	6	36	23		59	21	36			3	29	2	22		56		27		27	6	12	6	24
9	33		82	115	71		29	86	61	71	18	18	26	71	33	23	71	16	11	71	26	13	11	50	16		66	11	17			7	27	3	22		59		41		41	6	23	12	41
10	50		63	113	56		28	86	48	56	18	17	20	56	32	18	56	14	8	56	26	13	11	50	14		64	8	13			9	26	4	22		61		59		59	5	39	10	54
11	58		51	109	47		30	80	38	47	17	17	16	47	31	15	47	13	6	47	27	11	12	50	13		63	6	10			10	24	4	21		59		65		65	5	43	14	62
12	21		46	67	69		20	47	32	69	13	5	12	69	24	17	69	14	1	69	27	13	10	50	5		55	1	2	4	6	14	5	21		50		59		59	5	37	12	54	
P																																													
1	18		75	93	81		15	80	65	81	15	17	26	81	30	24	81	13	11	81	26	13	8	47	13		60	11	18			6	26	4	21		57		42		42	5	26	8	39
2	52		56	108	52		26	82	43	52	15	19	18	52	30	16	52	14	7	52	27	11	8	46	14		60	7	12			10	22	3	20		55		64		64	5	45	8	58
3	65		44	109	40		29	84	34	40	15	17	13	40	30	12	40	17	7	40	27	11	8	46	17		63	7	11			10	26	3	19		58		62		62	5	47	10	62
4	31		56	87	64		31	64	41	64	15	12	17	64	27	17	64	10	6	64	26	12	8	46	10		56	6	11			8	22	4	18		52		61		61	6	43	8	57
5	4		51	55	93		27	31	29	93	8		7	93	21	20	93	04			27	12	2	41	1		42			1	4	9	4	20		38		39		39	5	28	2	36	
P																																													
6			73	73	100		30	43	43	100	12		12	100	21	21	100	11	11	100	26	3		29	11		40	11	28			10	2	19	7	38	6	1		7	4	1		5	
7	46		47	93	51		28	65	33	51	14	9	12	51	25	13	51	14	7	51	26	8	1	35	14		49	7	14			5	15	2	21	3	46	2	17		19	4	12	2	18
8	16		73	89	82		20	71	58	82	15	16	25	82	26	21	82	11	9	82	27	12	10	49	11		60	9	15			6	25	3	22		56		57		57	5	39	10	54
9			61	61	100		12	49	49	100	14	1	15	100	24	24	100	11	11	100	26	4	2	32	11		43	11	26			14	3	21	2	40	2	15		17	4	6	2	12	
10			57	57	100		20	34	34	100	10		10	100	21	21	100	7	7	100	27			27	7		34	7	21			6	3	21	2	32	2			2	4	5			5
11			73	73	100		24	46	46	100	10	21	12	100	19	19	100	13	13	100	27			27	13		40	13	33			11	1	19	3	34	3			2	5	4			4
12			41	41	100		18	23	23	100	7		7	100	14	14	100	5	5	100	25			25	5		30	5	17			3	2	18	3	26	3			3	4			4	
P																																													
Tot.	406			1483	1889		575	1315			292	192			551			(N) 249			630	140	97	867	254		1121			5	84	365	64	466	50	1034	44	609	9	662	112	401	104	617	

Date: September 18, 1946, Wednesday



GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -			DELIVERIES TO P P & L CO. VIA DONEGAL			DELIVERIES TO P P & L CO. VIA LEHMAN FARM			DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.			ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -											
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Cir's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Fire	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. PP & L Co.	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.	PP & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Farm	Total	PP & L Co.	Highland Farm	Freq. Chg'r.	Total		
									TOTAL	From Md.	From Pa.											Stem	Hydro	Freq. Chg'r.	Total																					
1				54	54	100		25	28	28	100	5		5	100	13	13	100	9	9	100	25			25	9		34	9	26			8	1	19	5	33	4		2	6	5		5		
2				50	50	100		19	30	30	100	6		6	100	13	13	100	9	9	100	27			27	9		36	9	25			12		17	5	34	4		4	4		4			
3				62	62	100		28	35	35	100	7	3	10	100	13	13	100	11	11	100	25			25	11		36	11	31			14	1	16	4	35	4		2	6	4		4		
4				60	60	100		24	36	36	100	6	4	10	100	14	14	100	12	12	100	26			26	12		38	12	32			14		16	3	33	2		2	4	4		4		
5				58	58	100		27	29	29	100	4		4	100	14	14	100	8	8	100	26			26	8		34	8	24			10	2	18	3	33	4		1	5	4		4		
6				64	64	100		27	38	38	100	9		9	100	19	19	100	10	10	100	26			26	10		36	10	22			9	1	18	5	33	2		2	4		4			
7				104	104	100		28	74	74	100	16	7	23	100	27	27	100	21	21	100	26			26	21		47	21	45			22	2	19	4	47	3		4	7	6		6		
P																																														
8	9			109	118	92		28	91	84	82	18	17	32	92	32	29	92	22	20	92	27	4	7	38	22		60	20	33			3	27	1	22		53		19	19	6	4	8	18	
9	20			90	110	82		25	86	71	82	18	19	30	82	31	25	82	15	12	82	26	13	10	49	15		64	12	19			5	29	4	22		60		36	36	5	21	10	36	
10	43			68	111	61		28	84	51	61	16	17	20	61	31	19	61	15	9	61	27	13	11	51	15		66	9	14			9	26	4	23		62		61	61	6	38	12	56	
11	34			76	110	69		26	84	58	69	17	17	23	69	31	21	69	17	12	69	26	12	8	46	17		63	12	19			8	26	3	21		58		63	63	5	45	8	58	
12	22			54	76	71		28	48	34	71	14	4	13	71	24	17	71	3(12)	2	71	27	13	2	42	6		48	2	4	3	4	14	4	18		43		32	32	5	21	4	30		
P																																														
1	22			84	106	79		24	82	65	79	15	18	26	79	29	23	79	16	13	79	26	13	6	45	16		61	13	21			6	28	3	23		60		40	40	5	25	7	37	
2	61			49	110	45		27	83	37	45	16	17	16	45	28	13	45	18	8	45	26	12	8	46	18		64	8	13			10	23	3	21		57		58	58	6	41	7	54	
3	51			54	105	51		24	81	41	51	15	16	16	51	29	15	51	17	9	51	26	12	6	44	17		61	9	15			9	26	2	22		59		61	61	5	45	9	59	
4	39			47	86	55		28	62	34	55	13	11	13	55	27	15	55	13	6	55	26	13	6	45	10		55	6	11			8	18	3	20		49		59	59	6	41	6	53	
5	8			55	63	87		26	35	30	87	11		10	87	31	18	87	12	2	87	25	13	3	41	2		43	2	5			4	12	4	21		39		38	38	5	28	4	37	
P																																														
6				59	59	100		25	33	33	100	5		5	100	19	19	100	7	7	100	26	2		28	7		35	7	20			6	3	22	4	35	3	10		13	4	6		10	
7	41			38	79	48		29	49	24	48	13	3	8	48	23	16	48	6	3	48	26	13	4	43	6		49	3	6			7	12	4	19		42	2	37		39	4	28	4	36
8	49			54	103	52		29	75	39	52	15	16	16	52	26	14	52	14	7	52	26	12	8	46	14		60	7	12			9	23	3	22		57		56	56	5	39	10	54	
9	8			74	82	90		28	52	47	90	13	9	20	90	24	22	90	10	9	90	26	9	5	40	10		50	9	18			3	15	3	22		43		30	30	4	18	5	27	
10				69	69	100		27	42	42	100	7		7	100	22	22	100	11	11	100	26			26	11		37	11	30			6	1	20	6	33	6		6	5	1		6		
11				54	54	100		17	33	33	100	7		7	100	17	17	100	9	9	100	26			26	9		35	9	26			4	2	20	8	34	6		6	4	1		5		
12				40	40	100		21	19	19	100	2		2	100	13	13	100	4(14)	4	100	26			26	5	2	33	4	12	1		2	1	16	6	26	6		6	4	1		5		
P																																														
Tot.	407			1526	1933			618	1309			268	178			540			276				625	154	84	863	280	2	1145			4	85	384	55	477	33	1058	46	600	11	657	115	403	94	612

Date: September 12, 1946 Thursday



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -			DELIVERIES TO P P & L CO. VIA DONEGAL			DELIVERIES TO P P & L CO. VIA LEBMAN FARM			DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEBMAN F.			ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -										
	60 Cycle Gen. at S. H.	Freq. Chg'r.	60 Kv Circ's.	Maryland	Total	S. From Maryland	Maryland	Freq. Chg'r.	60 KV CIRCUITS			Fire	Other	Total From Maryland	S. From Maryland	Total	From Maryland	S. From Maryland	Total	From Maryland	S. From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Nat. Ed. P. P. & L. Co.	Total	From Maryland	S. From Maryland	Lehman Farm	Nat. Ed.	Other	P. P. & L.	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen. at Holtwood	Highland Maryland	Total	P. P. & L. Co.	Highland Maryland	Freq. Chg'r.	Total
									TOTAL	From Md.	S. From Pa.											Steam	Hydro	From Chg'r.	Total																				
1				47	47	100		22	25	25	100				12	12	100	7	7	100	25			25	7	32	7	22			6	2	17	6	31	6		6	4	1		5			
2				61	61	100		30	31	31	100	5		5	100	14	14	100	9	9	100	26			26	9	35	9	26			11	3	15	6	35	4		4	4			4		
3				54	54	100		27	26	26	100	4		4	100	12	12	100	9	9	100	27			27	9	36	9	27			10		17	5	32	4		4	4			4		
4				53	53	100		30	28	28	100	5		5	100	12	12	100	8	8	100	26			26	8	34	8	24			11		16	5	32	4		4	4			4		
5				59	59	100		29	31	31	100	6		6	100	15	15	100	9	9	100	26			26	9	35	9	26			7	1	17	4	29	6		1	7	4			4	
6				74	74	100		29	44	44	100	11	1	12	100	12	12	100	12	12	100	25			25	12	37	12	22			12	1	18	6	37	4		4	4	1		5		
7				31	31	100		30	61	61	100	14		14	100	26	26	100	17	17	100	27			27	17	44	17	27			14	2	20	4	40	3		1	4	5			5	
P																																													
8	2			106	108	98		23	78	76	98	17	12	25	98	29	28	98	13	12	98	26	12	2	40	18	58	18	31		3	23	2	22	2	52	1	17		18	6	8	1	15	
9	26			89	116	77		27	88	68	77	17	18	27	77	32	25	77	16	12	77	26	11	6	42	16	59	12	20		8	26	4	21		59		60	6	43	8	57			
10	54			62	116	53		28	88	47	53	17	18	19	53	32	17	53	17	9	53	26	12	10	49	17	66	9	14		9	27	3	21		60		61	5	41	10	56			
11	49			61	110	55		23	84	46	55	16	18	19	55	32	18	55	15	8	55	27	12	11	50	15	62	8	12		9	26	4	21		60		67	5	36	12	53			
12	30			44	74	69		24	42	29	69	14	7	12	69	25	15	69	4(4)	2	59	27	14	5	46	6	52	2	4		2	3	17	4	18		46		30	20	5	17	6	20	
P																																													
1	24			70	104	67		26	80	54	67	15	18	22	67	32	21	67	13	9	67	26	14	8	42	12	62	9	15		6	26	4	20		56		35	5	20	8	39			
2	71			41	112	37		28	84	31	37	16	18	13	37	28	10	37	17	6	37	25	12	9	46	17	63	6	10		11	25	3	22		61		63	6	42	10	58			
3	56			37	93	40		26	69	28	40	15	14	12	40	28	11	40	12	5	40	27	12	10	49	12	61	5	8		10	23	3	19		55		67	5	45	12	62			
4	76			16	92	17		27	66	11	17	14	12	4	17	27	5	17	12	2	17	25	12	9	46	12	58	2	3		11	20	4	20		55		66	5	48	8	61			
5	46			15	61	25	3	19	41	10	25	11	4	4	25	22	6	25	1(4)	-	25	27	13	5	45	2	47	-	-		1	9	10	4	21		45		65	6	49	8	61		
P																																													
6	43			9	52	17	40	18	32	5	17	7		1	17	20	3	17	2	-	17	27	12	1	40	2	42	-	-		9	5	4	20		38		65	6	53	2	60			
7	78			78			39	21	28			3				23			-2			26	13	4	43		43				2	10		5	21		38		66	6	52	4	60		
8	63			4	67	6	12	17	38	2	6	13		1	6	24	1	6	1	-	6	26	12	8	46	1	47	-	-		11	5	5	21		42		72	5	54	8	67			
9	20			16	36	44	1	8	28	12	44	9		4	44	21	8	38	-3			26	12	6	44		44	-			3	7	7	5	21		43		65	5	50	8	63		
10				44	44	100		18	24	24	100	9		9	100	19	15	79	-3			26	13	4	43		43				3	3	11	4	18		39		52	4	39	4	47		
11				50	50	100		24	23	23	100	6		6	100	14	14	100	3(4)	3	100	26	8		34	4	38	3	8		1	7	3	19	4	34	2	6		8	3	5		8	
12				48	48	100		24	24	24	100	7		7	100	13	13	100	3(4)	3	100	26			26	4	30	3	3		1	4	2	18	2	27	4		4	4			4		
P																																													
Tot.	648			1157	1805		50	382	1170			251	140		532		197					627	105	99	321	210	1121			12	121	223	72	463	44	1046	38	247	2	227	111	604	102	824	

Date: 20 SEPTEMBER 1946 - FRIDAY



# GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON HOLTWOOD - SAFE HARBOR SYSTEM AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -										SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -						
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Circ's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	60 KV CIRCUITS			Fire	Other	Totally From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman Farm	Mut. Ed.		P P & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Term. Md.	Total	P P & L Co.	Highland Term. Md.	Freq. Chg'r.	Total						
									TOTAL	From Md.	% From Md.														Scream	Hydro	Freq. Chg'r.	Total		Lehman F.	Mut. Ed. P P & L Co.													Total	From Maryland	% From Maryland	Fire	Other	
																																																	(1)
1				45	45	100		23	23	23	100	4		4	100	13	13	100	5	5	100	26			26	5		31	5	16			7	1	19	2	29	2	2	1	5	3			3				
2				49	49	100		29	19	19	100	4		4	100	11	11	100	3	3	100	26			26	3		29	3	10			6	2	17		26			3	3	3			3				
3				55	55	100		29	24	24	100	5	1	6	100	11	11	100	7	7	100	26			26	7		33	7	21			19	1	16		30			3	3	3			3				
4				50	50	100		26	24	24	100	6		6	100	12	12	100	6	6	100	27			27	6		33	6	18			12	1	16		29			2	2	3			3				
5				43	43	100		21	21	21	100	7		7	100	11	11	100	3	3	100	29			29	3		29	3	10			9	2	17		29			3	3	4			4				
6				64	64	100		28	36	36	100	10	1	11	100	15	15	100	8	8	100	26			26	8		34	8	24			11	2	19		31			3	3	3			3				
7				70	70	100		25	44	44	100	11	5	16	100	19	19	100	11	11	100	26			26	11		37	11	30			12	1	18	2	38	2		3	5	2			2				
P																																																	
8				82	82	100		29	53	53	100	11	3	14	100	23	23	100	13	13	100	26			26	13		39	13	33			10	2	19	6	37	5			5	3	1		4				
9	6			69	74	92		24	50	46	92	10		9	92	24	22	92	12	11	92	21			26	12		32	11	29			1	6	2	19	6	34	5	8		13	3	9		12			
10	14			61	75	81		27	50	41	81	9		7	81	25	20	81	11	9	81	26			26	11		37	9	24			2	6	3	17	6	34	6	20		26	3	20		23			
11	7			53	60	88		21	41	36	88	9		8	88	22	19	88	5	4	88	26	10		36	5		41	4	10			2	10	3	16	7	38	6	22		28	3	24		27			
12				65	65	100		28	38	38	100	7	6	13	100	18	18	100	4	4	100	26	12		38	4		42	4	10			2	12	4	18	4	40	2	37		39	3	33		36			
P																																																	
1				79	79	100		28	50	50	100	8	13	21	100	20	20	100	7	7	100	27	13		40	7		47	7	15			2	18	2	18	2	42	2	39		41	3	36		39			
2				66	66	100		27	38	38	100	10	6	16	100	17	17	100	7	7	100	26	7		33	7		40	7	18			1	3	2	18	6	36	6	19		25	2	21		23			
3				56	56	100		9	47	47	100	10	6	16	100	18	18	100	13	13	100	26			26	13		39	13	33			10	1	18	10	39	10			10	3	4		7				
4				72	72	100		27	45	45	100	8	5	13	100	18	18	100	13	13	100	26			26	13		39	13	33			10	1	14	10	35	9			9	3	6		9				
5				66	66	100		30	35	35	100	6	1	7	100	16	16	100	8	8	100	26			26	8		34	8	24			6	2	13	12	33	11			11	3	6		9				
P																																																	
6				54	54	100		27	28	28	100	6	1	7	100	16	16	100	5	5	100	26	5		31	5		36	5	14				6	2	14	10	32	9	5		14	2	10		12			
7	35			14	49	29	9	22	17	5	29	2		1	29	15	4	29	5			26	13		30		1	40			5	5	1	4	13	10	38	9	21		30	3	25		28				
8	43			7	50	14	10	13	29	4	14	10	1	2	14	17	2	14				26	13		39			39			6	6	4	14	6	36	6	33		39	3	24		37					
9	2			33	35	94		15	22	21	94	9		8	94	16	13	81	2			26	14		40			40			2	2	7	4	14	6	35	5	25		20	3	26		29				
10				49	49	100		26	25	25	100	9	2	11	100	16	16	100	2	2	100	26	10		36	4		40	2	5			2		10	3	12	8	35	9	9		18	2	12		14		
11				55	55	100		26	26	26	100	6		6	100	12	12	100	7	7	100	26			26	7		33	7	21				8	1	12	10	31	7			7	3	6		9			
12				56	56	100		24	31	31	100	6	6	12	100	12	12	100	8	8	100	26			26	8		34	8	24			12	1	11	7	31	7			7	2	5		7				
P																																																	
Tot.	107	0	0	1312	1419			19	584	816		23	67			397			151			626	97		723	160	1	884			9	23	217	51	381	130	811	118	340	18	376	68	260		528				

Date: 21 SEPTEMBER, 1946 SATURDAY



GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA  
Values Are In-Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -						
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Ckt's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Firm	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLT'D.				Lehman F.	Met. Ed. P P & L Co.	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.		P P & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen. erators	Highland from Maryland	Total	P P & L Co.	Highland from Md.	Freq. Chg'r.	Total
									TOTAL	From Md.	% From Md.											Stream	Hydro	Freq. Chg'r.	Total							Firm	Other												
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	
1			50	50	100		24	26	26	100	4	1	5	100	10	10	100	9	9	100	25		25	9		34	9	26			14	1	12	5	32	4		4	1	4		5			
2			44	44	100		26	18	18	100	1		1	100	19	10	100	7	7	100	27		27	7		34	7	21			14		10	6	36	7		7	2	3		5			
3			48	48	100		29	18	18	100	2		2	100	8	8	100	7	7	100	27		27	7		34	7	21			15		10	7	32	5		5	1	3		4			
4			44	44	100		25	19	19	100		-1			8	8	95	6	6	95	26		26	6		32	6	19			13	1	10	5	29	5		5	2	3		5			
5			37	37	100		29	7	7	100					7	7	100	2	2	100	26		26	2		28	2	7			9	1	10	5	25	5		5	1	4		5			
6		1	27	28	96		25	3	2	100		-6			7	2	25				26		26			26					8	1	9	7	25	6		6	1	3		4			
7	-2		40	38	100		29	11	11	100	1		1	100	8	8	100	2	2	100	27		27	2		29	2	7			10	1	10	4	25	4		4		2		2			
P																																													
8	-1	1	32	32	97		25	9	9	100		-1			8	7	90	-14			26		26	1		27			2		8	3	9	4	26	2		2	1	2		3			
9		12	14	26	54		24					-13			6			-5			26		26		2	28			5			4	10	2	21	4		4	1	1		2			
10			20	20	100		12	8	8	100		-7			10	5	53				26		26			26					10	2	9	1	22		9		9	1	8		9		
11			14	14	100		10	4	4	100		-1			8	4	50	-3			27	1	28			28			3	1	8	3	10	2	27		10		10	1	8		9		
12		2	14	16	88		16	1	1	100		-1			8	1	13	-7			26	13	39			39			7	1	13	6	10		37		10		10	1	9		10		
P																																													
1		1	11	12	92		7	3	3	100		-5			8	3	38	-4			27	5	32			32			4		10	3	10		27	1	17		12	1	8		9		
2	2		5	7	71			6	4	71		-5			10	4	44				26		26			26				1	7	2	10	2	22		10		10	1	9		10		
3		3	21	24	88		21	3	3	100		-4			6	3	50	-4			26	11	37	1		38			5	1	13	4	9	4	36	2	10		12	1	11		12		
4		7	18	25	72		25					-7			6			-6			25	13	38			38			6		10	4	9	8	37	8	11		19	1	15		16		
5		5	22	27	81		28					-8			6			-6			27	13	40			40			6		10	4	10	8	38	8	10		18	1	16		17		
P																																													
6	11	1	1	11	24	46	9	11	2	1	48		-3		10	1	10	-8			27	16	43			43			8	3	3	4	11	10	39	10	15		25	1	21		22		
7	19			16	35	46	5	17	13	6	46	5		2	46	14	4	29	-7			26	24	50			50			7	6	10	5	12	8	48	7	33		40	1	36		37	
8	1			48	49	98		29	19	19	98	8		8	98	14	11	79	-4			26	24	50			50			4	2	15	4	10	10	45	7	26		33	1	30		31	
9			58	58	100		29	28	28	100	6		6	100	15	15	100	7	7	100	26		26	7		33	7	21			8	1	11	10	36	11		11	2	8		10			
10			58	58	100		28	28	28	100	5		5	100	15	15	100	8	8	100	26		26	8		34	8	24			8	2	11	12	33	9		9	2	7		9			
11			54	54	100		30	25	25	100	3		3	100	13	13	100	7	7	100	25		25	7		32	7	22			8	1	10	10	29	12		12	2	7		9			
12			49	49	100		26	21	21	100	2		2	100	11	11	100	7	7	100	26		26	7		33	7	21			8	1	9	10	28	8		8	2	6		8			
P																																													
Tot.	28	3	33	755	819		14	525	271			37	-61		226			7			628	120	748	64	2	814			37	15	232	58	241	140	743	125	153		280	29	234		253		

$\checkmark \frac{19}{20}$  of 8       $\checkmark \frac{7}{8}$  of 7       $\checkmark \frac{8}{15}$  of 10  
 $\checkmark \frac{19}{20}$  of 6       $\checkmark \frac{9}{10}$  of 8       $\checkmark \frac{4}{9}$  of 10

Date: October 13, 1946

Sundar



GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -					DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.						ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS. AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 25 CYCLE BUS HOLTWOOD TO -			
	60 Cycle Gen. at S.H. (1)	Freq. Chg'r. (2)	60 Kv Circ's. (3)	Maryland (4)	Total (5)	% From Maryland (6)	Maryland (7)	Freq. Chg'r. (8)	69 KV CIRCUITS			Firm (12)	Other (12a)	Total From Maryland (13)	% From Maryland (14)	Total (15)	From Maryland (16)	% From Maryland (17)	Total (18)	From Maryland (19)	% From Maryland (20)	60 CY. GENERATORS AT HOLT'D.				Lehman F. (25)	Met. Ed. & P.P. & L. Co. (26)	Total (27)	From Maryland (28)	% From Maryland (29)	Lehman Farm (30)	Met. Ed.		P.P. & L. (32)	Phil. Elec. (33)	req. Chg'r. (34)	Total (35)	Freq. Chg'r. (36)	25 Cycle Gen- erators (37)	Highland from Maryland (38)	Total (39)	P.P. & L. Co. (40)	Highland from Md. (41)	req. Chg'r. (42)	Total (43)
									TOTAL (9)	From Md. (10)	% From Md. (11)											Steam (21)	Hydro (22)	Freq. Chg'r. (23)	Total (24)																				
1	44			44			12	3	31			8	1		14			9				23	4	27	9		36			7	5	1	19		32		67		67	5	51	4	60		
2	17			26	43	60		15	29	17	60	7	2	5	60	14	8	60	9	5	60		21	4	25	9		34	5	15	5	11	1	17		34		62		62	3	49	4	56	
3				37	37	100		20	19	19	100	3		3	100	12	12	100	3	3	100		22	2	24	3		27	3	11	4	6	2	13		25		59		59	5	48	4	57	
4	12			41	53	77		24	29	22	77	4		3	77	14	11	77	9	7	77		22	2	24	9		33	7	21	4	8	1	18		31		48		48	3	37	2	42	
5	4			25	29	86		9	21	18	86	5		4	86	11	9	86	6	5	86		23		23	6		29	5	17	2	8	1	17	3	31	2	31		33	4	26		30	
6	36			1	37	3	7	8	23	1	3	6			3	14		3	6		3		22		22	6		28			5		2	17	2	26	2	36		38	4	31		35	
7	41			22	63	35	7	15	43	15	35	13		5	35	20	7	35	12	4	35		24	1	25	12		37	4	11	7	7	1	19		34		52		52	3	42	2	47	
P																																													
8	26			46	72	64		21	52	33	64	16	3	12	64	24	15	64	5	3	64	22	21		43	6		49	3	6	1	7	11	5	20	2	46	2	59		61	6	47		53
9	94			6	100	6	16	15	71	4	6	18	9	2	6	30	2	6	15	1	6	26	21		47	13		60	1	2	15	13	3	21	4	36	4	58		62	5	50		55	
10	95			3	99	3	11	4	84	3	3	18	16	1	3	30	1	3	15		3	26	21		47	15		62			15	19	4	21		59		58		58	6	50		56	
11	120				120		23	25	72			18	11		31			13			27	22	1	50	13		63			18	10	4	23	2	57		63		63	5	49	2	56		
12	104			9	113	8	10	13	91	7	8	18	19	3	8	30	2	8	17	1	8	26	22	3	51	17		68	1	1	17	24	2	20		63		67		67	5	55	2	62	
P																																													
1	38			29	67	43	1	14	54	23	43	14	14	12	43	24	10	43	5	2	43	26	22	2	50	5		55	2	4	11	19	5	17		52		66		66	5	53	2	60	
2	100			12	112	11	5	25	79	9	11	17	17	4	11	30	3	11	14	2	11	27	22	2	51	14		65	2	3	17	21	3	19		60		69		69	6	53	4	63	
3	104			9	113	8	10	26	80	6	8	17	17	3	8	28	2	8	14	1	8	26	23	2	51	14		65	1	2	16	23	3	19		61		67		67	5	54	4	63	
4	104			6	110	5	11	24	75	4	5	17	16	2	5	29	1	5	14	1	5	27	23		50	14		64	1	2	16	22	3	18	1	60		69		69	6	56		62	
5	88			22	110	20	3	26	84	17	20	16	20	7	20	28	6	20	16	3	20	26	23	3	52	16		68	3	4	15	27	3	19		64		71		71	6	55	2	63	
P																																													
6	82			24	106	23	3	24	80	18	23	18	20	8	23	29	7	23	14	3	23	26	24	7	57	14		71	3	4	15	24	3	23		65		68		68	5	50	8	63	
7	85			17	102	17	3	24	75	13	17	16	19	6	17	28	5	17	9	2	17	26	22	12	60	9		69	2	3	16	23	4	23		66		69		69	5	47	10	64	
8	80			22	102	22		24	80	18	22	17	20	8	22	28	6	22	12	3	22	26	24	10	60	12		72	3	4	16	23	3	23		65		69		69	5	48	12	65	
9	66			31	97	32		22	75	24	32	17	17	11	32	27	9	32	14	4	32	26	23	4	53	14		67	4	6	14	24	3	22		63		71		71	5	56	4	65	
10	71			12	83	14	6	12	67	9	14	15	14	4	14	26	4	14	13	2	14	26	24		50	13		63	2	3	14	19	3	23		59		67		67	5	56		61	
11	62				62		28	4	30			13	2		20			0			26	24		50	1		51			1	12	7	4	22		46		63		63	5	53		58	
12	33			16	49	33	4	14	31	10	33	10	1	4	33	15	5	33	3	1	33	14	24		38	4		42	1	2	1	8	6	3	21		39		64		64	5	51		56
P																																													
Tot.	1506	1		416	1923		160	411	1375			317	238		556			245			429	542	59	1030	248		1278			3	276	360	67	474	14	1194	10	1473		1483	117	1167	68	1352	

Date: October 16, 1946 Wednesday



GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO					DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM				SEND-OUT FROM 25 CYCLE BUS AT HOLTWOOD TO										
	60 Cycle Gen. at S. H.	Freq. Chg'r.	60 Kv Cir'a.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Fire	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. PP & L Co.	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.		PP & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Farm Md.	Total	PP & L Co.	Highland Farm Md.	Freq. Chg'r.	Total	
									TOTAL	From Md.	% From Md.											Stream	Hydro	Freq. Chg'r.	Total							From Md.	% From Md.													From
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)		
1	4			29	33	88	4	31	27	88	9		8	88	16	14	88	9	8	88		22		22	9		31	8	26		4	5	1	19		29		64		64	5	54		59		
2				46	46	100	7	41	41	100	6	6	12	100	15	15	100	13	13	100		23		23	13		36	13	36		4	9	1	19		33		60		60	5	53		58		
3				48	48	100	8	41	41	100	7	7	14	100	15	15	100	12	12	100		24		24	12		36	12	33		3	15		18		36		47		47	4	37		41		
4		1		47	48	98	14	35	34	98	6	3	9	100	15	15	100	11	11	100		24		24	11		35	11	31		2	12		17		31		37		37	4	30		34		
5				49	49	100	15	36	36	100	9	5	14	100	14	14	100	11	11	100		23		23	11		34	11	32		2	12	1	17		32		35		35	4	29		33		
6	10	4		20	34	59	2	5	26	15	59	8		5	59	14	8	59	6	4	59		23		23	6		29	4	14		3	6	2	18		29		38		38	4	29		33	
7	49			1	50	2	11	3	36	1	2	12			8	18		2	8		2		24		24	8		32				6	2	2	17		27		35		35	4	29		33	
P																																														
8	43			29	72	40	3	16	57	23	40	16	5	8	40	25	10	40	7	3	40		22	21		43	7	50	3	6		9	13	4	22		48		55		55	5	44		49	
9	91	4		3	98	3	27	5	69	2	3	18	7	1	3	30	1	3	12		3		27	20		47	12	59				14	12	4	23		53		57		57	6	48		54	
10	114	1			115		18	5	93			18	20			32			19				26	22		48	19	67				17	21	3	23		64		65		65	6	53		59	
11	111				111		14	7	92			18	19			33			18				26	21		47	18	65				17	20	3	22		62		67		67	6	55		61	
12	93	1		9	103	9	7	7	85	8	9	18	18	3	9	31	3	9	16	1	9		26	24		50	16	66	1	2		16	20	3	22		61		69		68	6	57		63	
P																																														
1	60			15	75	20	7	5	67	13	20	14	14	6	20	26	5	20	10	2	20		27	22		49	10	59	2	3		14	14	3	20		51		68		68	5	56		61	
2	107			3	110	3	11	10	86	3	3	17	20	1	3	30	1	3	16		3		26	23		49	16	65				17	21	3	21		62		68		68	6	59		63	
3	97	1		4	102	4	17	5	84	3	4	17	19	1	4	29	1	4	17	1	4		26	22		48	17	65	1	2		16	21	3	21		61		68		68	6	58		64	
4	114	2			116		39		77			16	16			29			14				26	23		49	14	63				17	21	3	21		62		73		73	4	58		62	
5	80			9	89	10	9	3	78	8	10	14	16	3	10	28	3	10	14	1	10		26	24		50	14	64	1	2		14	19	3	21		57		69		69	7	58		65	
P																																														
6	89			11	90	11	11	12	79	9	11	15	17	4	11	29	3	11	15	2	11		27	23		50	15	65	2	3		15	18	3	24		60		71		71	5	59		64	
7	112				112		18	10	86			16	19			30			15				26	23		49	15	64				17	17	3	24		61		71		71	5	60		65	
8	93			6	99	6	6	17	76	5	6	17	17	2	6	30	2	6	14	1	6		26	24		50	14	64	1	2		15	18	3	23		59		71		71	4	61		65	
9	69			14	83	17	1	13	71	12	17	16	16	5	17	27	5	17	11	2	17		27	24		51	11	62	2	3		14	22	4	20		60		72		72	5	60		65	
10	38			19	57	33		19	38	13	33	15	2	6	33	23	7	30	0.00				26	23		49	1	50				1	9	9	4	21		44		69		69	6	57		63
11	59				59		29	9	22			7				18			-5				26	24		50		50				5	11	5	5	22		48		62		62	5	52		57
12	45			1	46	2	7	15	26	1	2	9			-2	16		-2	2.00		-2		15	23		38	4	42				2	9	3	3	21		38		64		64	4	55		59
P																																														
Tot.	1478	14		363	1855		237	214	1430			318	246			573			265				431	549		980	273	1253				8	265	335	64	496		1168		1454		1454	121	1209		1330

Date: October 17, 1946 Thursday



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -								
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Circuit	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Firm	Other	Total	% From Maryland	Total	% From Maryland	Total	% From Maryland	Total	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. PP & L Co.	Total	% From Maryland	% From Maryland	Lehman Farm	Met. Ed.		PP & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen.	Highland Maryland	Total	PP & L Co.	Highland Penn.	Freq. Chg'r.	Total		
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total							Firm	Other														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)			
1	39			24	63	38		17	47	18	38	7	7	5	38	17	6	38	15	6	38		24		24	15		39	6	15		7	11		19		37		63		63	4	54	51			
2	2			64	66	97		18	47	46	97	8	9	16	97	16	16	97	15	15	97		21		21	15		36	15	42		2	14	1	18		35		50		50	5	42	47			
3				75	75	100		27	46	46	100	7	5	12	100	15	15	100	19	19	100		13		13	19	2	34	19	56			13		18		31		38		38	3	31	34			
4				75	75	100		19	58	58	100	7	10	17	100	15	15	100	23	23	100		12		12	23	1	36	23	64			18		16		34		24		24	4	18	22			
5				59	59	100		21	36	36	100	9	2	11	100	16	16	100	14	14	100		14		14	14	1	29	14	48			-11		17		28		6		6	3	2	5			
6		4		38	42	90		15	27	24	90	7		6	90	15	14	90	8	7	90		23		23	8		31	7	23			1	7	1	17		26		27		27	3	21	24		
7				56	56	100		16	39	39	100	13	1	21	100	18	18	100	100	1	100		23	26		45	3		48	1	2			2	4	19	4	17		46		47		47	4	39	43
P																																															
8	38			23	61	38		23	38	14	38	13		5	38	23	9	38	-10				25	20		45	1		46			2	9	7	5	21		44		59		59	6	48	54		
9	120			5	125	4	28	14	85	3	4	18	17	1	4	33	1	4	13	1	4	27	21		48	13		61	1	2			17	17	1	20		55		58		58	5	49	54		
10	116			7	123	6	23	17	86	5	6	18	19	2	6	34	2	6	12	1	6	26	22		48	12		60	1	2			17	15	3	22		57		57		67	7	55	62		
11	101			21	122	17	4	23	95	16	17	17	24	7	17	35	6	17	12	2	17	26	23	8	57	12		69	2	3			17	22	2	22		63		67		67	5	48	8	61	
12	113			7	120	6	17	17	86	5	6	17	20	2	6	35	2	6	10	1	6	27	22	4	53	10		63	1	2			17	19	3	21		60		68		68	5	52	4	61	
P																																															
1	93			2	95	2	21	2	71	1	2	15	16	1	2	28	-	2	7	-	2	26	23	2	51	7		58	-				16	15	3	21		55		69		69	5	55	4	64	
2	112			8	120	7	11	20	92	6	7	17	24	3	7	34	2	7	13	1	7	27	23	7	57	13		70	1	1			17	22	2	22		63		69		69	6	51	6	63	
3	89			21	110	19	3	24	85	16	19	16	24	8	19	30	6	19	11	2	19	26	23	7	56	11		67	2	3			15	25	2	22		64		71		71	5	50	9	64	
4	90			18	108	17		27	82	14	17	15	22	6	17	30	5	17	12	2	17	26	22	6	54	12		66	2	3			16	25	1	22		64		69		69	6	54	7	67	
5	64			44	108	41		28	82	34	41	16	20	15	41	30	12	41	13	5	41	26	24	6	56	13		69	5	7			14	22	2	22		60		69		69	5	53	6	64	
P																																															
6	70			33	103	32	2	26	75	20	32	16	16	10	32	29	9	32	12	4	32	26	24	6	56	12		68	4	6			15	21	4	24		64		70		70	5	51	7	63	
7	97			10	107	9	9	28	70	6	9	15	16	3	9	29	3	9	8	1	9	26	23	10	59	8		67	1	1			17	17	4	25		63		73		73	6	50	10	66	
8	57			36	93	39		24	70	27	39	15	16	12	39	27	11	39	8	3	39	26	24	10	60	8		68	3	4			14	23	4	22		63		69		69	5	51	11	67	
9	63			30	95	32		26	69	22	32	15	17	10	32	27	9	32	9	3	32	26	24	6	56	9		65	3	5			14	20	4	22		60		73		73	4	54	8	66	
10	40			49	89	55		27	62	34	55	14	15	16	55	25	14	55	9	5	55	26	23	5	54	9		63	5	8			12	20	3	22		57		71		71	5	46	4	65	
11	30	7		6	43	14	12	9	23	3	14	11		2	14	19	1	5	-5			26	23		49			49					5	10	7	5	22		49		64		64	4	54		58
12	8			30	38	79		16	23	18	79	10		8	79	15	10	67	0M			14	24		38	2		40					2	6	7	4	16		36		63		63	3	53		56
P																																															
Tot.	1342	11		741	2094		130	484	1494			316	307		595			238M				455	517	77	1049	249	4	1302				11	257	397	58	490		1213		1404		1404	113	1091	84	1288	

Date: October 18, 1946 Friday



GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -												
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Circ's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Fire	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. PP & L Co.	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.		PP & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen. at Holtwood	Highland Farm Maryland	Total	PP & L Co.	Highland Farm Md.	Freq. Chg'r.	Total		
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total							Fire	Other													PP & L	Phil. Elec.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)			
1			47	47	100		24	24	24	100	3		3	100	14	14	100	6	6	100	13	16		29	7		36	6	17	1		8	3	17	9	38	6	15		21	5	17		22			
2			58	58	100		24	33	33	100	8	4	12	100	14	14	100	8	8	100	14	19		33	8		41	8	20			16	1	15	6	38	8	16		24	4	16		20			
3			51	51	100		26	24	24	100	3		3	100	12	12	100	7	7	100	14	13		27	7		34	7	21			8	1	14	8	31	6	11		17	4	12		16			
4			57	57	100		26	32	32	100	8	2	10	100	13	13	100	10	10	100	13	13		26	10		36	10	28			14	1	13	7	35	6	9		15	4	10		14			
5			59	59	100		29	29	29	100	7		7	100	15	15	100	9	9	100	14	12		26	9		35	9	26			12	1	15	7	35	6	10		16	5	11		16			
6			47	47	100		29	18	18	100	3		3	100	14	14	100	1	1	100	13	23		36	3		39	1	3	2		9	2	14	9	36	8	20		28	3	21		24			
7			62	62	100		30	30	30	100	12		12	100	17	17	100	2	2	100	14	24		38	2		40	2	5			1	11	4	15	6	37	6	28		34	5	27		32		
P																																															
8			56	56	100		22	34	34	100	10		10	100	24	24	100	-1			25	24		49	1		50			2	3	9	6	17	9	46	8	33		41	5	32		37			
9	64		43	107	40		22	87	35	40	18	17	14	40	31	12	40	15	6	40	26	20		46	15		61	6	10			13	21	3	20	1	58		58	5	48		53				
10	103		10	113	9		24	90	8	9	17	18	3	9	33	3	9	15	1	9	26	20		1	47	15		62	1	2			16	19	4	19		58		59	5	47	2	54			
11	91		22	113	19		24	88	17	19	17	20	7	19	34	6	19	15	3	19	26	22		4	52	15		67	3	4			16	22	4	20		62		61	6	47	5	58			
12	75		30	105	29		24	83	24	29	17	19	10	29	30	9	29	12	3	29	26	22		5	53	12		65	3	5			14	24	4	20		62		62	5	45	6	56			
P																																															
1	26		47	73	64		23	51	33	64	14	12	17	64	24	15	64	-1			27	22		6	55	3		58			4	9	17	5	18		53		62	6	46	7	58				
2	80		19	99	19		20	82	16	19	16	16	6	19	31	6	19	13	2	19	26	22		5	53	13		66	2	3			15	23	5	21		64		63	5	47	5	57			
3	96		9	105	9	2	25	79	7	9	16	17	3	9	29	3	9	13	1	9	26	21		5	52	13		65	1	2			15	21	3	19		58		61	5	47	5	57			
4	67		23	90	26		18	72	19	26	16	14	8	26	29	8	26	11	3	26	27	23		5	55	11		66	3	5			14	25	4	19		62		63	5	46	6	57			
5	58		38	96	40		25	72	29	40	16	16	13	40	29	12	40	8	3	40	26	24		8	58	8		66	3	5			13	25	5	20		63		62	6	44	10	60			
P																																															
6	105		6	111	5	9	29	75	4	5	16	15	2	5	30	2	5	9	-	5	26	23		10	59	9		68					17	19	5	21		62		66	4	46	10	60			
7	67		23	90	26		25	66	17	26	16	15	8	26	30	8	26	4	1	26	26	24		12	62	4		66	1	2			14	24	5	21		64		72	4	48	14	66			
8	39		39	78	50		13	65	33	50	16	15	16	50	26	13	50	4	2	50	26	24		14	64	4		68	2	3			12	25	5	19		61		72	6	49	14	69			
9	21		54	75	72		21	55	40	72	15	12	19	72	25	18	72	2	1	72	26	22		10	58	2		60	1	2			9	25	5	19		58		65	4	44	10	58			
10	2		70	72	97		27	46	45	97	14	7	20	97	24	23	97	1	1	97	26	23		4	53	1		54	1	2			6	20	5	19		50	2	58		60	5	45	4	54	
11			73	73	100		29	44	44	100	11	7	18	100	21	21	100	5	5	100	26	24		50	5		55	5	9			2	22	3	18	7	52	6	11		17	5	11		16		
12			70	70	100		30	37	37	100	9	3	12	100	18	18	100	7	7	100	18	19		37	7		44	7	16				12	2	16	11	41	9		9	4	4		8			
P																																															
Tot.	894		1013	1907		11	589	1316			298	229			567			175			530	499	89	1118	184		1302			9	189	431	86	429	80	1224	71	1037		1108	114	810	98	1022			

Date: Thursday November 14, 1946



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -										
	60 Cycle Gen. at S.H.	Freq. Chg'r.	69 Kv Cir's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Firm	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLT'D.				Lehman F.	Met. Ed. & P P & L Co	Total	From Maryland	% From Maryland	Lehman Farm	Met. Firm	Ed. Other	P P & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Farm Maryland	Total	P P & L Co.	Highland Farm Md.	Freq. Chg'r.	Total
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total																				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)	

1			1	44	45	98		30	14	14	100	1		1	100	10	10	100	10	1	100	22			22	3		25	1	4	2		7	1	15	25			4	4	2		2	
2				56	56	100		26	30	30	100	5		5	100	11	11	100	13	13	100	7			7	13	1	21	13	62			6	1	12	19			4	4	2		2	
3				64	64	100		22	41	41	100	5	3	8	100	12	12	100	21	21	100				21	2	23	21	91			8		12	20			3	3	3		3		
4				69	69	100		25	44	44	100	5	4	9	100	14	14	100	22	22	100				22	2	24	22	92			12		12	24			2	2	3		3		
5				69	69	100		27	32	32	100	5		5	100	11	11	100	18	18	100				18	2	20	18	90			7		11	18			4	4	2		2		
6				57	57	100		29	27	27	100		-1			11	11	96	16	15	96				16	1	17	15	88			5		11	16			2	2	3		3		
7				64	64	100		29	35	35	100	6	1	7	100	12	12	100	15	15	100	10			10	15	1	26	15	58			12		10	22			3	3	1		1	
P																																												
8				56	56	100		30	25	25	100	6		6	100	12	12	100	8	8	100	13			13	8		21	8	38			8		10	18			3	3	4		4	
9				36	36	100		24	11	11	100	2		2	100	11	9	82	OM			23			23	1	24			1		7	3	11	22			3	3	2		2		
10			17	11	28	39		27					-5			9			-21			26	18		44		44			21		1	6	11	39		11	11	2	5		7		
11			20	6	26	23		26					-4			7			-25			26	25		51		51			25	2	3	8	11	49		21	21	3	16		19		
12		1	5		6		2	3				3				11			-19			26	25		51		51			19	3	6	6	12	46		15	15	2	13		15		
P																																												
1		1	1	7	9	78		2	3	3	88	3		3	88	11			-12			25	13		38		38			12	2	6	5	12	37		10	10	3	6		9		
2				12	12	100		10	2	2	100	4		2	50	9			-13			26	13		39		39			13	2	6	5	11	37		10	10	2	6		8		
3			4	17	21	81		20				2				8			-14			26	14		40		40			14	1	6	5	11	37		10	10	2	6		8		
4			3	23	26	88		22	3	3	100					9	3	33	-13			28	13		41		41			13		9	5	11	38		10	10	3	6		9		
5	1			21	22	95		16	5	5	95	3		3	95	13	2	15	-10			26	13		39		39			10	1	8	5	12	36		10	10	3	6		9		
P																																												
6	45			1	46	2	17	13	17	-	2	8		-	2	16	-	2	-9			26	13		39		39			9	8	1	5	14	37		38	38	3	32		35		
7	68			1	69	1	20	23	28	-	1	10	3	-	1	16	-	1	-3			26	13		39		39			3	10	4	5	12	34		49	49	3	42		45		
8	42			2	44	5	8	21	16	1	5	7		-	5	15	1	5	-5			26	12		38		38			5	8	6	4	12	35		48	48	3	42		45		
9	34			13	47	28		29	19	5	28	9		3	28	16	2	13	-4			26	12		38		38			4	7	11	4	12	38		49	49	3	41		44		
10	22			16	38	42		27	13	5	42	4		2	42	13	3	23	-5			26	13		39		39			5	5	10	4	11	35		45	45	3	38		41		
11				45	45	100		25	20	20	100	4		4	100	13	13	100	20	2	100	26	4		30	3		33	2	6	1		16	2	11	30	1	4	4	3		3		
12				33	33	100		24	8	8	100	1		1	100	12	7	58	-10			26			26	1		27			2		8	3	11	24			5	5	4		4	
P																																												
Tot.	212	2	51	713	978		47	530	393			93	1		282			-38				466	201		667	121	9	797			159	49	173	77	278	736		380	33	363	64	259		323

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Date: November 17, 1946 Sunday



## GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON

## HOLTWOOD - SAFE HARBOR SYSTEM

## (AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA)

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -			DELIVERIES TO P. P. & L. CO. VIA DONEGAL		DELIVERIES TO P. P. & L. CO. VIA LEHMAN FARM		DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.			ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -				ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -														
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Circ's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Fire	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Ed L. Co.	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.		Phil Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Town Maryland	Total	PP & L. Co.	Highland Town Md.	Freq. Chg'r.	Total	
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total							Fire	Other												PP & L.
1				71	71	100		29	42	42	100		-1			16	16	98	24	23	98	8			8	24	3	35	23	66				20	12	32	11		11	4	5	9			
2				77	77	100		23	53	53	100	7	1	8	100	16	16	100	27	27	100	9			9	27	2	38	27	71		7		19	11	37	10		10	5	5	10			
3				79	79	100		29	50	50	100	6		6	100	18	18	100	27	27	100	8			8	27	3	38	27	71		8		17	10	35	10		10	4	5	9			
4				65	65	100		19	45	45	100	2		2	100	16	16	100	24	24	100	9			9	24	2	35	24	69		4		17	12	33	10		10	5	5	10			
5				75	75	100		27	49	49	100	8		8	100	16	16	100	26	26	100	8			8	26	2	36	26	72		9		16	10	35	10		10	4	4	8			
6				75	75	100		25	47	47	100	7		7	100	17	17	100	23	23	100	12			12	23	2	37	23	62		6		16	12	34	10		10	4	5	9			
7				96	96	100		31	65	65	100	15	6	31	100	23	23	100	23	23	100	24			24	23		47	23	49		18		19	10	47	10		10	5	4	9			
P																																													
8	1			83	84	99		28	56	55	99	17	1	18	99	26	26	99	9	9	99	27	20		47	9		56	9	16		4	16		21	4	45	4	36		40	5	30	35	
9	50			57	107	53		26	84	45	53	17	16	17	53	31	16	53	14	7	53	26	22	4	52	14		66	7	11		12	24		23		59		66	6	50	4	60		
10	67			43	110	39		21	88	34	39	18	17	14	39	33	13	39	15	6	39	26	22	8	56	15		71	6	8		14	24		24		62		69	6	50	8	64		
11	44			61	105	58		26	82	48	58	18	16	20	58	32	17	58	11	6	58	27	22	8	57	11		68	6	9		12	26		22		60		67	6	45	9	60		
12	28			66	94	70		25	69	48	70	18	13	22	70	31	22	70	8	6	70	26	22	8	56	8		64	6	9		11	22		22		55		64	6	43	10	59		
P																																													
1				66	66	100		17	50	50	100	13	1	14	100	25	25	100	9	9	100	26	3	2	31	9		40	9	23			14		22	2	38		10		10	5	2	7	
2				44	44	100		4	42	42	100	13		13	100	26	26	100	1	1	100	27	25		52	1		53	1	2		2	14		22	2	40	2	10		12	6	4	10	
3		2		45	47	96		3	42	40	96	10		10	96	27	26	96	3	3	96	26	19		45	3		48	3	6		2	16		22		40		10		10	6	4	10	
4	9			46	55	84		16	40	34	84	9		8	84	26	22	84	10	1	84	26	21		47	2		49	1	2		1	3	15		20	3	42	2	11		13	6	4	10
5	41			46	87	53		29	69	37	53	15	10	13	53	28	15	53	11	6	53	25	23	4	52	11		63	6	10		10	22		24		56		45		45	6	29	7	42
P																																													
6	127			2	29	2	17	27	84	2	2	16	17	1	2	32	1	2	15	-	2	26	22	11	59	15		74				19	20		23		62		71		71	5	50	10	65
7	93			18	111	16	3	26	84	13	16	16	21	6	16	30	5	16	12	2	16	26	23	10	59	12		71	2	3		16	26		24		66		70		70	5	49	14	68
8	54			46	100	46		28	73	34	46	16	17	15	46	28	13	46	9	4	46	26	24	14	64	9		73	4	5		14	24		23		61		75		75	4	49	12	65
9	15			78	93	84		26	66	55	84	15	15	25	84	28	24	84	7	6	84	26	23	11	60	7		67	6	9		10	28		23		61		66		66	6	45	12	63
10				69	69	100		28	41	41	100	12	2	14	100	22	22	100	1	1	100	27	25	2	54	1		55	1	2		2	20		22	2	47	2	26		28	4	19	2	25
11				83	83	100		30	52	52	100	11	3	14	100	22	22	100	15	15	100	26	7		33	15		48	15	31			15		22	7	44	6	6		12	5	7	12	
12				84	84	100		30	52	52	100	9	1	10	100	19	19	100	18	19	100	18			18	20		38	19	50		1	8		17	10	38	10		10	4	4	8		
P																																													
Tot.	529	2		1475	2006		20	564	1425			288	156		588			334			515	323	82	720	336	14	1270				20	13	386		50	707	1129	97	702		799	122	517	88	727

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Date November 12, 1946 Tuesday



GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -			DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -							SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -					ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -								
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Cir's.	Maryland	Totals	% From Maryland	Maryland	Freq. Chg'r.	60 KV CIRCUITS			Fire	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. P & L Co	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.		P & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	60 Cycle Gen.	Highland Farm	Total	P P & L Co.	Highland Farm	Freq. Chg'r.	Total	
									TOTAL	From Md.	% From Md.											Stream	Hydro	Freq. Chg'r.	Total							Stream	Hydro													Freq. Chg'r.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)		
1			33	33	100		30	3	3	100		-2			10	3	30	-4			26			26			26			4	3	3	11	21			6	6	4			4				
2			38	38	100		27	10	10	100		-1			10	9	91	-2			26			26			26			2	11	2	9	24			4	4	4			4				
3			27	27	100		28	2	2	100		-6			9	2	22	-4			26			26			26			4	10	3	9	26			4	4	4			4				
4			3	38	41	93		29	9	9	100		-2		10	8	82	-2			26			26			26			2	10	3	10	25			5	5	4			4				
5				39	39	100		28	10	10	100		-1		10	9	91	-1			26			26			27			2	10	2	9	23			4	4	4			4				
6			1	48	49	98		30	19	19	100	6		6	100	12	12	100	0		26			26	2		28			2	11	3	10	26			5	5	4			4				
7	5			39	44	89		18	26	23	89	6		5	89	18	16	89	0		27			27	1		28			1	1	9	4	12	27			8		8	5	2		7		
P																																														
8	23			34	57	60		25	33	20	60	13		8	60	24	12	50	-5		26	19	4	49	1		50			6	6	10	6	18	46			35		35	6	22	4	32		
9	60			23	83	28		24	61	17	28	19	4	6	28	30	8	28	4	1	28	27	23	12	62	4		66	1	2	14	14	6	23	57			64		64	5	42	13	60		
10	77			24	101	24		27	74	18	24	19	12	7	24	33	8	24	8	2	24	26	22	12	60	8		68	2	3	15	20	5	25	65			71		71	5	47	13	65		
11	91			15	106	14	2	25	81	11	14	20	14	5	14	32	4	14	11	2	14	26	23	12	61	11		72	2	3	17	21	5	23	66			71		71	6	45	12	63		
12	46			47	93	51		25	70	36	51	17	1		16	51	30	15	51	6	3	51	26	22	15	63	6		69	3	4	12	24	5	23	64			68		68	4	45	16	65	
P																																														
1				87	87	100		27	58	58	100	16	16	32	100	26	26	100	2	2	100	26	22	13	61	3		64	2	3	1	7	29	5	21	63			70		70	5	46	14	65	
2	18			46	64	72		24	39	28	72	17	1	13	72	25	15	60	-6		27	22	12	61			61			6	10	12	7	22	57			70		70	5	45	13	63		
3	20			42	62	68		24	40	27	68	15		10	68	28	17	61	-4		26	22	13	61			61			4	10	14	7	23	58			68		68	5	46	13	64		
4	26			36	62	58		21	40	23	58	14		8	58	26	15	58	-3		26	21	12	59			59			3	11	12	7	22	55			70		70	5	46	12	63		
5	47			28	45	37	2	24	51	19	37	16		6	37	30	11	37	2	1	37	27	22	12	61	3		64	1	2	1	12	16	6	24	59			66		66	5	43	14	62	
P																																														
6	101			1	102	1	15	27	60	1	1	18	3	-	1	30	-	1	6	-	1	26	22	12	60	6		66				16	13	5	27	61			68		68	6	46	12	64	
7	68			14	82	17	3	26	54	9	17	18	4	4	17	28	5	17	2	-	17	26	23	12	61	2		63				14	14	6	24	58			64		64	4	39	14	57	
8	29			17	46	37		13	32	12	37	12		4	37	25	8	32	-6		26	24	12	62			62			6	7	15	7	24	59			44		44	5	25	12	42		
9	2			32	34	94		10	26	24	94	6		6	94	24	18	75	-7		26	25	6	57			57			7	3	14	7	23	54			21		21	5	8	8	21		
10				41	41	100		15	24	24	100	6		6	100	22	18	82	-4		26	22		48			48			4	1	12	5	23	45				4	4	5			5		
11		1		60	61	100		19	40	40	100	11		11	100	23	23	100	7	7	100	27	9		36	7		43	7	16			13	3	22	38			5	5	5			5		
12				59	59	100		21	33	33	100	5		5	100	16	16	100	7	7	100	26			26	8		34	7	21	1		9	3	19	32			6	6	4			5		
P																																														
Tot.	613	1		4868	1486		22	567	895			254	56		531				N	7		629	343	159	1131	63		1194			56	156	326	115	456			1109		858	43	901	114	541	170	831

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 ✓  $\frac{9}{11}$  of 10

Date: Monday December 16, 1946



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

Values Are In Megawatthours

HOUR	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -													
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Cir's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	60 KV CIRCUITS				Fire	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLT'D.				Lehman F.	Mt. Ed. & L Co	Total	From Maryland	% From Maryland	Lehman Farm	Mt. Ed.		PP & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland from Maryland	Total	PP & L Co.	Highland from Md.	Freq. Chg'r.	Total						
									TOTAL	From Md.	% From Md.	From Md.											Stress	Hydro	Freq. Chg'r.	Total							Fire	Other													Fire	Other				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)								
1				53	53	100		18	34	34	100	8	5	13	100	15	15	100	8	8	100	2.6			2.6	8	34	8	24			12	1	19		32			4	4	5			5								
2				42	42	100		16	27	27	100	7		7	100	14	14	100	7	7	100	2.6			2.6	7	33	7	21			10	1	18		29			5	5	5			5								
3				42	42	100		14	27	27	100	8		8	100	13	13	100	5	5	100	2.6			2.6	5	31	5	16			10	2	16		28			5	5	4			4								
4				35	35	100		18	17	17	100	4		4	100	12	12	100	3	3	100	2.6			2.6	3	29	3	10			7	2	16		25			3	3	4			4								
5				39	39	100		22	17	17	100	4		4	100	12	12	100	1	1	100	2.6			2.6	2	28	1	4	1		10	2	14		27			5	5	4			4								
6				51	51	100		26	24	24	100	5		5	100	15	15	100	4	4	100	2.6			2.6	5	31	4	13	1		7	2	18		28		1	3	4	4			4								
7				65	65	100		27	36	36	100	11		11	100	18	18	100	7	7	100	2.6			2.6	7	33	7	21			8	3	20		31		1	3	4	4			4								
P																																																				
8	5			68	73	93		26	48	45	93	14		13	93	26	24	93	2	2	93	27	16	6	49	3	52	2	4	1	3	17	5	23		49		24		24	5	11	6	22								
9	44			55	99	56		28	71	40	56	18	9	15	56	32	18	56	9	5	56	26	21	13	60	9	69	5	7	12	21	5	25		63		68		63	6	43	13	62									
10	91			19	110	17		29	82	14	17	19	13	5	17	34	6	17	12	2	17	26	21	12	59	12	71	2	3	17	21	5	24		67		67		67	5	44	13	62									
11	63			63	126	50		30	97	49	50	19	20	20	50	35	18	50	17	9	50	26	21	13	60	17	77	9	12	15	29	4	25		73		71		71	6	44	14	64									
12	33			78	111	70		30	91	64	70	17	21	27	70	34	24	70	14	10	70	27	22	13	62	14	76	10	13	10	32	4	25		71		60		60	5	39	14	58									
P																																																				
1	12			70	82	85		23	59	50	85	15	7	19	85	26	22	85	12	10	85	26	11		37	12	49	10	20		2	15	3	23	2	45		5	2	7	4		1	5								
2	27			68	85	68		16	69	47	68	16	11	18	68	29	20	68	9	6	68	26	20	7	53	9	62	6	10		8	24	5	24		61		37		37	6	21	7	34								
3	14			84	98	86		25	74	64	86	16	11	23	86	32	28	86	12	10	86	26	12	12	50	12	62	10	16		7	24	4	23		58		56		56	5	24	14	53								
4	23			72	95	76		21	73	55	76	16	8	18	76	30	23	76	14	11	76	27	12	11	50	14	64	11	17		8	24	3	25		60		57		57	6	34	12	52								
5	41			47	88	53		15	74	39	53	17	9	14	53	32	17	53	12	6	53	27	15	12	54	12	66	6	9		11	21	5	24		61		62		62	5	37	13	55								
P																																																				
6	105			4	109	4	8	27	77	3	4	13	12	1	4	32	1	4	12	-	4	26	21	12	59	12	71				20	18	4	26		68		68		68	5	45	14	64								
7	78			28	106	26		29	78	20	26	15	15	8	26	31	8	26	11	3	26	26	22	14	62	11	73	3	4		14	26	4	25		69		67		67	5	40	15	60								
8	17			39	56	70		20	36	25	70	15		10	70	26	15	58	-5			26	26	11	63		63				5	5	19	7	23		59		30		30	4	15	11	30							
9	20			27	47	57		19	29	17	57	7		4	57	23	13	57	-5			26	27		53		53				5	4	13	6	22		50		4	2	6	5		1	6							
10	3			54	57	95		26	31	29	95	6		6	95	22	21	95	-2			26	24		50	1	51				3	2	16	5	23		49		10		10	5	4		9							
11				78	78	100		29	48	48	100	8		8	100	22	22	100	13	13	100	25	2		27	13	40	13	33			12	2	2		37		2	3	2	5			5								
12				84	84	100		30	52	52	100	7	5	12	100	19	19	100	15	15	100	26			26	15	41	15	37			16	1	22		39		6	6	5			5									
P																																																				
Tot.	576			1255	1831			8	554	1271				285	146			584			187						627	293	136	1056	203		1259					16	138	412	85	526	2	1179		690	41	731	117	411	148	676

Date: Tuesday December 17, 1946



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -							
	60 Cycle Gen. at S.H.	Freq. Chg'r.	69 Kv Cir'a.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Firm	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLT'D.				Lehman F.	Met. Ed. & L Co	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.		PP & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Farm Maryland	Total	PP & L Co.	Highland Town Md.	Freq. Chg'r.	Total	
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total							Firm	Other													
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)		
1				63	63	100		25	37	37	100	8	6	14	100	16	16	100	11	11	100	26			26	11	1	38	11	29			11	1	20		32			4	4	5		5		
2				39	39	100		28	10	10	100		-2			12	10	83	-1			26			26			26			1		2	1	19		23			5	5	4		4		
3				47	47	100		26	20	20	100	4		4	100	11	11	100	3	3	100	26			26	3		29	3	10			7	4	17		28			4	4	4		4		
4				41	41	100		22	20	20	100	6		6	100	11	11	100	3	3	100	26			26	3		29	3	10			10	1	15		26			4	4	4		4		
5				41	41	100		25	13	13	100	1		1	100	13	12	92	0(4)			27			27	2		29			2		6	3	16		27			5	5	5		5		
6				61	61	100		29	32	32	100	9	2	11	100	16	16	100	6	6	100	26			26	6		32	6	19			12	1	16		29			5	5	5		5		
7				51	51	100		22	29	29	100	6		6	100	16	16	100	5	5	100	26	3		29	5		34	5	15			4	4	19	4	31	2	2		4	3		3		
P																																														
8	2			71	73	97		28	44	43	97	16		16	97	26	25	97	1(4)	1	97	26	17	6	49	3		52	1	2	2	4	14	5	23		48		48	48	5	33	6	44		
9	95			9	104	9	2	27	76	7	9	19	10	2	9	32	3	9	13	1	9	27	22	9	58	13		71	1	1		16	20	4	23		63		68	68	5	48	9	62		
10	113			7	120	6		23	95	6	6	19	20	2	6	84	4	6	17	1	6	26	22	10	58	17		75	1	1		17	27	4	26		74		70	70	6	47	12	65		
11	88			21	109	19		21	90	17	19	19	19	7	19	32	6	19	15	3	19	27	24	14	65	15		80	3	4		15	30	4	24		73		71	71	5	45	14	64		
12	80			21	101	21		16	86	18	21	17	21	8	21	34	7	21	13	3	21	26	23	14	63	13		76	3	4		14	30	4	25		73		70	70	6	46	14	66		
P																																														
1	22			45	67	67		19	48	32	67	14	8	15	67	23	15	67	-1(4)			27	23	10	60	4		64			5	8	20	5	23		61		63	63	4	43	12	59		
2	45	4		19	68	28			70	20	28	17	15	9	28	30	8	28	8	2	28	26	23	10	59	8		67	2	3		012	25	5	21		63		71	71	6	49	12	67		
3	39	3		25	67	37		2	66	24	37	17	11	10	37	30	11	37	8	3	37	27	22	12	61	8		69	3	4		11	25	5	23		64		69	69	5	48	10	63		
4	38			30	68	44		19	49	22	44	17	2	8	44	27	12	44	3	1	44	26	21	10	57	3		60	1	2		10	20	5	22		57		70	70	5	48	12	65		
5	50			41	91	45		28	64	29	45	17	10	12	45	27	12	45	5	2	45	26	21	13	60	5		65	2	3		12	22	5	23		62		70	70	6	46	14	66		
P																																														
6	122			1	123	1	23	29	72	1	1	14	12	-	1	31	-	1	10	-	1	27	22	12	61	10		71				18	19	5	24		66		69	69	5	45	12	62		
7	64			19	83	23	1	26	58	13	23	14	9	5	23	28	6	23	3(4)	1	23	26	22	14	62	4		66	1	2	1	13	19	5	22		60		67	67	5	45	14	66		
8	16			30	46	65		18	29	19	65	9		6	65	24	13	54	-8			26	25	12	63			63			8	5	17	7	20		57		38	38	5	18	12	35		
9	2			31	33	94		6	27	25	94	6		6	94	23	19	83	-5			26	26		52			52			5	3	13	6	24		51		10	10	5	2		7		
10				51	51	100		13	39	39	100	9		9	100	24	24	100	4	4	100	27	19		46	4		50	4	8		2	14	4	24		44		10	10	5	4		9		
11				62	62	100		22	38	38	100	7		7	100	22	22	100	7(4)	7	100	26				26	8		34	7	21	1		8	3	21		33		15	15	5	8		13	
12				68	68	100		30	37	37	100	7		7	100	17	17	100	9	9	100	26				26	9		35	9	26			10	2	22		34			5	5	5		5	
P																																														
Tot.	776	7		894	1677		26	504	1449			272	143			560			129(4)			631	335	146	1112	154	1	1267			25	160	385	93	512	4	1179	2	881	32	915	118	575	155	848	

✓ 10/12 of 12

Date: December 18, 1946 Wednesday

17-17766-48



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

Values Are In Megawatthours

ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -											
Hour	60 Cycle Gen. at S.H.	Freq. Chg'r	60 Kv Circuit	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r	69 KV CIRCUITS			Fire	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60 CY. GENERATORS AT HOLTWOOD				Lehman Farm	Met. Ed. & PP & L Co	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed. Other	PP & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland from Maryland	Total	PP & L Co.	Highland from Md.	Freq. Chg'r.	Total					
									Total	From Md.	% From Md.											Steam	Hydro	Freq. (Chg'r.)	Total																								
1				64	64	100		27	37	37	100	8	5	13	100	16	16	100	10	10	100	26			26	10		36	10	28			11	1	21		33			5	5	5			5				
2				46	46	100		24	21	21	100	2		2	100	12	12	100	5	5	100	26			26	5		31	5	16			8	2	19		29			5	5	4			4				
3				48	48	100		25	22	22	100	5		5	100	13	13	100	4	4	100	26			26	4		30	4	13			6	1	18		25			6	6	5			5				
4				45	45	100		26	18	18	100	2		2	100	13	13	100	(N)	1	100	26			26	2		28	1	4	1		8	3	16		28			4	4	4			4				
5				43	43	100		28	15	15	100	4		4	100	12	12	100	(W)	1	100	26			26	2		28	1	4	1		4	2	18		25			5	5	4			4				
6				61	61	100		27	32	32	100	9	1	10	100	15	15	100	7	7	100	26			26	7		33	7	22			12	2	17		31			6	6	4			4				
7				61	61	100		27	33	33	100	7		7	100	17	17	100	5	5	100	26	5	1	32	5		37	5	14			8	3	20		31	2	12		14	5	6	2		13			
P																																																	
8	4			77	81	95		26	54	51	95	19		18	95	27	26	95	(W)	7	95	26	16	3	45	8		53	7	13	1	5	19	4	22		51			46	46	5	33	2		40			
9	46			60	106	57		26	80	46	57	19	12	18	57	31	18	57	15	9	57	26	22	2	50	15		68	9	14		13	22	3	24		62			69	69	6	56	4		66			
10	69			34	103	33		25	79	26	33	19	10	10	33	32	11	33	16	5	33	26	22	4	52	16		68	5	7		14	20	4	24		62			68	68	5	53	4		62			
11	70			33	103	32		24	80	26	32	19	9	9	32	32	10	32	17	5	32	26	22	2	50	17		67	5	7		14	22	3	25		64			69	69	7	54	4		65			
12	69			32	101	32		26	76	24	32	16	10	8	32	32	10	32	14	4	32	26	22	4	51	14		65	4	6		14	19	4	23		60			71	71	4	55	4		63			
P																																																	
1	16			59	75	79		25	50	40	79	13	3	13	79	24	19	79	7	6	79	26	18	2	46	7		53	6	11		7	15	4	23		49			54	54	5	43	2		50			
2	64			27	91	30		13	78	23	30	16	12	8	30	30	9	30	16	5	30	26	21		47	16		62	5	8		14	22	3	23		62			69	69	6	57	2		65			
3	56			45	101	45		26	76	34	45	16	12	13	45	30	14	45	15	7	45	26	22	6	54	15		69	7	10		13	23	3	23		62			70	70	6	53	6		65			
4	39			58	97	60		27	69	41	60	16	11	16	60	29	17	60	11	7	60	26	22	6	54	11		65	7	11		11	24	4	21		60			71	71	6	52	7		65			
5	52			47	99	47		24	77	36	47	16	12	13	47	31	15	47	14	7	47	26	22	7	55	14		69	7	10		12	24	4	26		66			67	67	5	52	7		64			
P																																																	
6	139			2	131	2	14	30	89	2	2	14	15	1	2	33	1	2	20	-	2	26	22	7	55	20		75				21	19	3	25		68			71	71	5	51	7		63			
7	113	1		1	113	1	17	20	71	1	1	15	9	-	1	29	-	1	13	-	1	27	23	5	55	13		68				17	16	4	26		63			70	70	7	53	6		66			
8	53	5		2	61	3	7	5	42	1	3	10		-	3	26	1	3	2	-	3	27	22	1	50	2		52				12	8	5	24		49			72	72	4	60	2		66			
9	46	5		1	52	2	10	1	43	1	2	8		-	2	26	1	2	5	-	2	25	22		47	5		52				12	8	4	22	4	50	2	73	75	5	62			67				
10	32			13	45	29	2	5	43	12	29	12		3	29	23	7	29	6	2	29	27	23		50	6		56	2	4		11	9	4	23	6	53	4	69	73	5	64			69				
11	14			32	66	71		25	43	34	79	11	2	10	79	22	17	79	5	4	79	26	22		48	5		53	4	8		7	13	4	23	2	49	2	69	71	6	61			67				
12				50	50	100		28	21	21	100	4		4	100	16	16	100	(N)			26	15		41	1		42				2		12	4	21		39			9	9	4	3		7			
P																																																	
Tot.	872	11		961	1844		50	548	1249			280	123			571			(N)	215			625	363	30	1038	220		1258			5	197	352	78	527	12	1171	10	1099	31	1140	122	868	59	1049			

Date: December 19, 1946 Thursday



GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON,  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA  
Values Are In Megawatthours

HOUR	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -							SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -							ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -					SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -						
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Cir'a.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	60 KV CIRCUITS			First	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	60-CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. PP & L Co.	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.		PP & L	Phil. Elec.	Freq. Chg'r.	Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Town Maryland	Total	PP & L Co.	Highland Town Md.	Freq. Chg'r.	Total			
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total							Other	Firm													Total	Firm	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)				
1			54	54	100		24	29	29	100	8	4	12	100	15	15	100	4	4	100	27	7		34	4		38	4	11			14	2	18		34		2	4	6	4		4					
2			39	39	100		30	11	11	100	3		3	100	11	8	73	-6(M)			26	15		41	1		42			7		14	4	16		41		10		10	5	6		11				
3			40	40	100		26	12	12	100	1		1	100	12	12	100				26			26			26					7	2	15		24			4	4			4					
4			42	42	100		25	17	17	100		-1			12	11	94	3	3	94	27			27	3		30	3	10			9	2	15		26			4	4			4					
5			42	42	100		30	10	10	100	2		2	100	11	8	73	-3(M)			26	8		34	1		35			4		11	3	14		32		6		6	4		4					
6			7	20	27	74		27	1	1	100				11	1	9	-17			26	26		52			52			17	1	9	6	15		48		14		14	4	9		13				
7			2	48	50	96		27	21	21	100	8		8	100	15	13	87	-8			27	20		47			47			8	4	12	6	17		47		157		57	4	49		53			
P																																																
8	11			54	65	83		19	45	37	83	16		13	83	26	22	83	2	2	83	26	21		47	2		49	2	4			7	15	5	19		46		57		57	6	48		54		
9	92			16	108	15	1	28	82	12	15	19	9	4	15	34	5	16	17	9	15	26	21	1	48	17		65	3	5			16	16	3	21		56		67		67	5	53		58		
10	101			12	113	11	2	27	84	9	11	19	12	3	11	32	4	11	14	2	11	26	20	5	51	14		65	2	3			16	21	4	22		63		70		70	6	54	6	66		
11	84			22	106	21	1	26	80	17	21	19	13	7	21	34	7	21	12	3	21	26	22	9	57	12		69	3	4			20	18	5	22		65		69		69	5	48	10	63		
12	85			18	103	17	1	25	77	13	17	17	12	5	17	32	5	17	11	2	17	27	20	10	57	11		68	2	3			15	21	5	23		64		68		68	4	49	12	65		
P																																																
1	36			52	88	59		26	63	37	59	14	15	17	59	27	16	59	6	4	59	26	22	12	60	6		66	4	6			12	24	4	21		61		77		77	6	53	12	71		
2	73			26	99	26		24	75	20	26	17	11	7	26	32	8	26	12	3	26	25	22	10	57	12		69	3	4			15	20	4	26		65		71		71	6	52	10	68		
3	76			21	97	22		27	70	15	22	16	11	6	22	29	6	22	10	2	22	27	24	10	61	10		71	2	3			15	21	5	24		65		76		76	6	51	12	69		
4	73			23	96	24	1	26	70	17	24	16	12	7	24	29	7	24	10	2	24	26	21	12	59	10		69	2	3			15	22	4	24		65		75		76	5	52	12	69		
5	80			8	88	9	8	26	52	5	9	16	2	2	9	29	3	9	4	-	9	26	23	10	59	4		63					15	17	5	24		61		68		68	5	44	10	59		
P																																																
6	95			2	97	2	14	29	56	1	2	17		2	29	1	2	6	-	2	26	22	10	58	6		64					23	5	6	25		59		71		71	5	42	12	59			
7	82			115	97	15		26	72	11	15	16	11	4	15	30	5	15	11	2	15	26	21	10	57	11		68	2	3			15	21	4	25		65		69		69	5	47	10	62		
8	66			9	75	12	5	19	52	6	12	16		2	12	27	3	12	7	1	12	27	22	6	55	7		62	1	2			12	14	4	24		54		71		71	5	54	6	65		
9	44	2		46			6	42				11				25			4			26	22		48	4		52					11	8	5	25		49		70		70	5	58		63		
10	52			2	54	4	9	5	38	2	4	12		4	23	1	4	4	-	4	26	21		47	4		51					11	9	4	23		47		68		68	5	59		64			
11	24			22	41	48	1	15	34	16	48	11		5	48	22	11	48	2(M)	1	48	26	22		49	3		51	1	2			1	7	13	4	23		48		60		60	6	50		56	
12	19			23	42	55		24	18	10	55	6		3	55	13	7	55	-5			26	19		45			45					5	4	8	4	20		41		23		23	5	17		22	
P																																																
Tot.	1093	2	9	610	1714		49	561	1111			280	111		560			100(M)				629	441	105	1175	142		1317			42	234	349	100	501		1226		1219	12	1231	119	895	112	1126			

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18  
17 of 13



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -										SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -			
	60 Cycle Gen. at S.H.	Freq. Chg'r.	60 Kv Cir's.	Maryland	Total	% From Maryland	Maryland	Freq. Chg'r.	69 KV CIRCUITS			Firm	Other	Total From Maryland	% From Maryland	Total	From Maryland	% From Maryland	Total	From Maryland	% From Maryland	50 CY. GENERATORS AT HOLTWOOD				Lehman F.	Met. Ed. PP & L Co.	Total	From Maryland	% From Maryland	Lehman Farm	Met. Ed.			Total	Freq. Chg'r.	25 Cycle Gen- erators	Highland Town Md.	Total	PP & L Co.	Highland Town Md.	Freq. Chg'r.	Total			
									TOTAL	From Md.	% From Md.											Steam	Hydro	Freq. Chg'r.	Total							Firm	Other	PP & L										Phil. Elec.	Freq. Chg'r.	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(31a)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)	(42)	(43)		
1	4			64	68	94		27	41	39	94	8	9	16	94	16	15	94	12	11	94	26			26	12		38	11	29			16	1	20		37		5	1	6	5		5		
2				50	50	100		23	26	26	100	4		4	100	13	13	100	6	6	100	26			26	6		32	6	19			10	1	18		29		5	5	3		3			
3				51	51	100		29	22	22	100	4		4	100	12	12	100	5	5	100	26			26	5		31	5	16			9	1	18		28		4	4	4		4			
4				36	36	100		19	15	15	100					10	10	100	2	2	100	25			25	2		27	2	7			8	2	16		26		4	4	4		4			
5				28	28	100		17	12	12	100	5		5	100	10	7	70	0M			27			27	1		28			1		6	3	16		26		4	4	3		3			
6				45	45	100		27	17	17	100	2		2	100	13	13	100	2M	2	100	26			26	3		29	2	7	1		4	2	19		26		3	3	3		3			
7				73	73	100		30	42	42	100	12		12	100	15	15	100	11	11	100	26			26	11		37	11	30			16	1	17		34		5	5	4		4			
P																																														
8				74	74	100		28	44	44	100	14	5	19	100	21	21	100	10	10	100	26			26	10		36	10	28			14	2	19		35		1	4	5	4		4		
9				46	46	100		12	33	33	100	7		7	100	21	21	100	4	4	100	26	4		30	4		34	4	12			2	6	4	20		32		14	14	4	9	13		
10	32			16	48	33	6	19	24	8	33	6		2	33	20	6	30	-4			26	19		45			45			4	5	7	5	22		43		20	20	5	13	18			
11	37			21	58	36	3	22	31	11	36	13		5	36	23	6	26	-3			26	25		51			51			3	8	10	5	22		48		50	50	4	40	44			
12	29			10	39	26	6	10	26	7	26	11		3	26	20	4	20	-4			26	25		51			51			4	7	9	5	21		46		38	38	5	30	35			
P																																														
1	26			13	39	33	3	22	16	5	33	8		3	33	17	2	12	-9			26	26		52			52			9	5	10	6	20		50		26	26	4	19	23			
2	16			26	42	62	1	24	17	11	62	8		5	62	15	6	40	-6			26	25		51			51			6	4	12	4	20		46		27	27	4	20	24			
3	4			56	60	93		28	33	31	93	10	3	12	93	18	17	93	7	7	93	26	7		33	7		40	7	18			2	12	3	21		38		22	22	5	16	21		
4				66	66	100		27	38	38	100	10	1	11	100	17	17	100	10	10	100	26			26	10		26	10	28			12	2	19		33		17	17	5	12	17			
5	8			43	51	84	1	21	29	24	84	9		8	84	18	15	84	1M	1	84	26	1		27	2		29	1	3	1		1	9	3	15		29		14	14	4	7	11		
P																																														
6	67			2	71	3	24	24	25	1	3	6		-	3	22	1	3	-7			26	23		49			49			7	11	5	6	16		45		58	58	5	51	56			
7	67			6	73	8	18	24	29	2	8	12		1	8	22	1	5	-4			26	22		48			48			4	12	6	6	17		45		71	71	3	59	62			
8	45			12	57	21	7	25	29	6	21	13		3	21	21	3	14	-5			27	23		50			50			5	9	11	5	15		45		51	51	4	44	48			
9	35			15	50	30	2	27	22	7	30	10		3	30	20	4	20	-7			25	26		51			51			7	7	13	6	15		48		40	40	5	31	36			
10	6			47	53	89		25	26	25	89	9	2	10	89	18	13	72	-5			26	26		52			52			5	4	19	5	14		47		32	32	3	27	30			
11				44	44	100		21	22	22	100	8		8	100	16	14	88	-4			27	18		45			45			4		20	4	15		43		11	11	3	7	10			
12				45	45	100		29	15	15	100	4	0	4	100	12	11	92	-3			27	17		44			44			3		12	3	13		31		10	10	2	6	8			
P																																														
Tot.	378			889	1267		71	560	634			193	20			410			9M			616	287		903	73		976			64	77	256	85	428		910		507	30	537	95	391		486	

Date: December 21, 1946 Saturday



**GENERATION AND TRANSMISSION OF ELECTRIC ENERGY ON  
HOLTWOOD - SAFE HARBOR SYSTEM  
AND TRANSMISSION FROM MARYLAND TO HOLTWOOD'S RESALE CUSTOMERS IN PENNSYLVANIA**

Values Are In Megawatthours

Hour	ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT SAFE HARBOR FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT SAFE HARBOR TO -				DELIVERIES TO P P & L CO. VIA DONEGAL				DELIVERIES TO P P & L CO. VIA LEHMAN FARM				DELIVERIES TO 13 KV 60 CYCLE BUS AT HOLTWOOD VIA LEHMAN F.				ENERGY SUPPLIED TO 13 KV 60 CYCLE BUS AT HOLTWOOD FROM -						SEND-OUT FROM 13 KV 60 CYCLE BUS AT HOLTWOOD TO -						ENERGY SUPPLIED TO 11 KV 25 CYCLE BUS AT HOLTWOOD FROM -				SEND-OUT FROM 11 KV 25 CYCLE BUS AT HOLTWOOD TO -								
	60 Cycle Gen. at S.H. (1)	Freq. Chg'r. (2)	60 Kv Circ's (3)	Maryland (4)	Total (5)	% From Maryland (6)	Maryland (7)	Freq. Chg'r. (8)	69 KV CIRCUITS			Fire (12)	Other (12a)	Total From Maryland (13)	% From Maryland (14)	Total (15)	From Maryland (16)	% From Maryland (17)	Total (18)	From Maryland (19)	% From Maryland (20)	60 CY. GENERATORS AT HOLTWOOD				Lehman F. (25)	Mt. Ed. (26) PP & L Co	Total (27)	From Maryland (28)	% From Maryland (29)	Lehman Farm (30)	Met. Ed.		PP & L (32)	Phil. Elec. (33)	Freq. Chg'r. (34)	Total (35)	Freq. Chg'r. (36)	25 Cycle Gen- erators (37)	Highland from Maryland (38)	Total (39)	PP & L Co. (40)	Highland from Md. (41)	Freq. Chg'r. (42)	Total (43)		
									TOTAL (9)	From Md. (10)	% From Md. (11)											Steam (21)	Hydro (22)	Freq. Chg'r. (23)	Total (24)																						
1				39	39	100		24	15	15	100	1		1	100	11	11	100	3	3	100		24	24	3		27	3	11		1	9	2	13		25		36		36	2	35		37			
2				43	43	100		27	16	16	100	2		2	100	10	10	100	3 <sup>(M)</sup>	3	100		24	24	4		28	3	11	1	2	8	2	13		26		47		47	2	39		41			
3				34	34	100		26	8	8	100		-1			8	7 <sup>(M)</sup>	89	0 <sup>(M)</sup>				20	20	2		22			2		8	1	11		22		5		5	1	2		3			
4				36	36	100		21	13	13	100		-5			8	6 <sup>(M)</sup>	72	5	4 <sup>(M)</sup>	72		12	12	5		17	4	24			4	1	11		16		3		3	2		2				
5				40	40	100		28	11	11	100	1		1	100	8	8	100	2	2	100		26	26	2		28	2	7			14	1	11		26		5		5	2	2		4			
6			3	26	29	90		25	4	4	100		-4			8	4 <sup>(M)</sup>	50	-3				25	26			25			3		9	3	10		24		5		5	2	2		4			
7				30	30	100		23	5	5	100		-3			8	5 <sup>(M)</sup>	63	-2				25	25			25			2		6	2	11		21		9		9	2	6		8			
P																																															
8				69	69	100		30	39	39	100	6		6	100	13	13	100	17	17	100		4	4	17	2	23	17	74					10		12		22		9		9	2	7		9	
9				46	46	100		22	22	22	100					13	13	100	9	9	100		10	10	9		19	9	47					5	1	13		19		10		10	2	6		8	
10				53	53	100		21	32	32	100	6		6	100	13	13	100	12	12	100		13	13	12		25	12	48					10	1	13		24		9		9	2	7		9	
11	23			42	65	65		26	39	25	65	6		4	65	15	10	65	19	12	65		4	4	19	1	24	12	50					8		13		21		2		2		2			
12	26			37	63	59		17	45	27	59	9		5	59	16	9	59	21	12	59						21	1	22	12	55				9		13		22			2	2		2		
P																																															
1	21			45	66	68		22	43	29	68	7		5	68	15	10	68	22	15	68					22	2	24	15	63				9		14		23			2	2		1			
2	30			30	60	50		21	39	20	50	3		2	50	14	7	50	18	9	50					18	1	19	9	47				5		12		17			2	2		2			
3	21			33	54	61		17	35	21	61	3		2	61	15	9	61	17	10	61		2	2	17	1	20	10	50					8		12		20		3		3	2		2		
4				37	37	100		11	25	25	100	2		2	100	12	12	100	10	10	100		14	14	10		24	10	42					7		14		21		10		10	2	8		10	
5	20			31	51	61		25	26	16	61	2		1	61	14	9	61	5	3	61		22	22	5		27	3	11					3	7	2	16		28		17		17	2	14		16
P																																															
6	59			6	65	9	14	7	45	4	9	8	2	1	9	21	2	9	12	1	9		22	22	12		34	1	3					10	2	2	17		31		57		57	1	49		50
7	55			9	64	14	14	6	46	6	14	11	1	2	14	19	3	14	12	2	14		22	22	12		34	2	6					11	1	1	18		31		68		68	2	62		64
8	55			5	60	8	15	8	38	3	8	11	1	1	8	20	2	8	9	1	8		22	22	9		31	1	3					10	2	2	16		30		59		59	2	51		53
9	42			9	51	18	8	10	35	6	18	11		2	18	18	3	18	7	1	18		24	24	7		31	1	3					7	5	3	16		31		45		45	2	39		41
10	18			26	44	59	1	9	36	21	59	8		5	59	17	10	59	8	5	59		23	23	8		31	5	16					4	8	1	15		28		45		45	3	39		42
11				64	64	100		28	34	34	100	7	1	8	100	16	16	100	9	9	100		22	22	9		31	9	29					20	12	2	15		31		46		46	2	40		42
12				63	63	100		28	35	35	100	6	4	10	100	15	15	100	9 <sup>(M)</sup>	9	100		23	23	10		33	9	27					17		14		32		32		32	3	28		31	
P																																															
Tot.	370		3	853	1226		52	482	686			110	-4		327			224					383	383	233	8	624			9	50	182	27	323		591		522	6	528	47	436		483			

✓ 8 of 8    ✓ 4 of 8    ✓ 13 of 5  
 ✓ 13 of 8    ✓ 5 of 8

Date: December 22, 1946 Sunday



EXHIBIT NO. 444.

[24772]

(Copy of letter attached to P. W. P. Co. voucher #6892,  
December, 1915.)

New York, December 20th, 1915.

PENNSYLVANIA WATER & POWER COMPANY. Dr.

To Simpson, Thacher & Barlett,  
Counsellors at Law,  
62 Cedar Street.

To all professional services from December 28,  
1914, to date, including services in connection  
with the following matters:

Matter of the sale of bonds of the Power Com-  
pany to Kissel, Kinnicutt & Company and Drexel  
& Company, including general opinion as to titles,  
validity and priority, also special opinion as to the  
liability imposed on the Power Company by the  
contract of February 8, 1911, with the United Rail-  
ways & Electric Company, and special opinion for  
a customer of the bankers as to the Power Com-  
pany's title to riparian rights; also consideration  
of the limitations on the issuance of bonds pro-  
posed by Kissel, Kinnicutt & Company, and atten-  
tion to the matter of the bond sale in general:  
[*Bond Issue Exp.*]

Preparing resolution of the directors as to  
putting all after-issued stocks and bonds of the  
Transmission Companies under the Power Com-  
pany mortgage, and advice thereon: [*Legal*]

Opinion as to the purchase of stock of the  
United Railways & Electric Company with the pro-  
ceeds of \$1,200,000 bonds of the Power Company:  
[*Legal*]

Consideration and advice as to the sale of  
bonds of the Power Company at 85; preparation  
for the Pennsylvania Public Service Commission



of a certificate of notification of sale of \$1,251,000 bonds, and proceedings thereon: [*Bond Issue Exp.*]

Preparing and securing approval of papers for the certification and delivery by the Columbia Trust Company of bonds of the Transmission Companies: [*Legal*]

Revising and securing approval of papers for the certification and delivery by the Columbia Trust Company of \$200,000 bonds of the Power Company: [*Bond Issue Exp.*]

Matter of amending application to the Philadelphia Stock Exchange for listing the bonds of the Power Company: [*do*]

Consideration of the Woelpper injunction case: [*Flowage Rights*]

[24772A] (page 2)

Consideration and advice as to revenue stamps on newly-issued bonds; corporate meetings; payment of corporate loan tax; replacement of Kitcat & Aitken's lost stock certificates; stock of Maryland Electric Furnace Company; and miscellaneous legal matters. [*Legal*] \$2,000.00

DISBURSEMENTS:

Stenography, typewriting, notary fees and petty disbursements 44.15

Total \$2,044.15

OK

C. E. F. C.

a/c Pay Suspense (*Legal*) \$1,000.00

Bond Issue Expense 1,000.00

Flowage 44.15

2,044.15

Note.—The hand written notations were copied from the original bill.

Newlands.



**EXHIBIT NO. 445.**

[24773]

December 12, 1945

**MEMORANDUM***Re: Lancaster Office Expense*

The following memorandum is in reference to Mr. Newlands' inquiry concerning the duties assigned to the Lancaster Office in the early days of the Company, and the work carried on or supervised by the Lancaster Office at the present time.

Work carried out by and through the Lancaster Office, and a description of its mode of operation, are referred to in memorandums dated March 29, 1945 and May 23, 1945. These memorandums, together with a memorandum dated April 5, 1945 and supplement dated May 26, 1945, cover in general the reasons for establishing a Lancaster Office, and show in detail property purchases and similar plant additions required for the Holtwood Development made in whole or in part by that agency up to the year 1930. After 1930, all expenses of the Lancaster Office, with the exception of expenses charged to job orders, were charged to operation. Therefore, it is assumed that Mr. Newlands' question involves two elements namely: (1) what, if any, were the activities of the Lancaster Office other than those indicated in the various memorandums referred to above; (2) what is the present function of the Lancaster Office.

Referring to item (1) above, it is known that prior to 1930 Mr. Bushong was engaged at times in matters not directly associated with property purchases or plant additions so that, where the expense could be identified, it was eliminated from our original cost. These activities, insofar as our present knowledge is concerned, may be described by years as follows:

1912—None—(Mr. Bushong worked on per diem basis)

1913—None—(Mr. Bushong worked on per diem basis)



1914—None—(Mr. Bushong worked on per diem basis)

1915—None

1916—Represented Company at hearings involving rates to be charged on ferry at McCall's Ferry. Attended legislative hearings on "Spangler Fishway Act."

Negotiated with National Transit Company for sale of pipe line right of way through York Furnace and Urey Farms.

1917—Checked titles to Susquehanna and Tidewater canal property.

Helped to organize guard force for Holtwood. Helped to sell Liberty Bonds.

1918—Collected data on power requirements for Lancaster and York Furnace Street Railway Company.

1919—Further negotiations with National Transit Company for oil pipe line crossings near Holtwood.

Discussed with local residents proposed highway bridge across Susquehanna River in vicinity of Holtwood.

Negotiated with Pioneer Electric Light Company for service line extensions in vicinity of Holtwood.

[24774] (page 2)

1920—Further negotiations with National Transit Company.

Settled claim for flooding of public road in Lower Chanceford Township.

1921—Attended hearings held by Pennsylvania Public Service Commission.

Helped Pioneer Electric Light Company to extend distribution lines in Martie Township near Holtwood.

Distributed, to interested parties, panoramic views of Holtwood.



- 1922—Investigation of Martin Construction Company property rights and activities—Pequea.  
Observation of activities of Pioneer Electric Light Company.  
Arranged for public showing of motion pictures of Holtwood.  
Distributed descriptive booklets and photographs of Holtwood Development.  
Aided in defense of suit brought as a result of an automobile accident in vicinity of the York County end of the dam.  
Investigated property titles in vicinity of Muddy Run—probably in connection with feed water supply for proposed Holtwood Steam Plant.  
Checked up on extension of distribution lines by Pioneer Electric Light Company.
- 1923—Made report on financial condition of Lancaster County Railway & Light Company.  
Assisted in matters pertaining to contract with Chester Valley Electric Company.
- 1924—Followed up matters pertaining to Conowingo Project.  
Checked up on line extensions of Pioneer Electric Light Company.  
Made proposal to Martic Township Supervisors for erection of new school near Holtwood.
- 1925—Followed up tax bills introduced in 1925 session of Pennsylvania Legislature.  
Followed up Holtwood School matter.  
Followed up progress of Conowingo Project.  
Arranged for aerial survey of proposed transmission route to Philadelphia.
- 1926—Attended hearings before Public Service Commission in matters involving Philadelphia Electric Company.



Arranged meeting at Holtwood for residents of Lancaster and York Counties for discussion of proposed highway bridge near Holtwood.

Made reports on legislation introduced in extra session of Pennsylvania Legislature in reference to taxes and regulation of public utilities.

Followed up extension of distribution lines by Pioneer Electric Light Company.

Followed up Holtwood School matter.

[24775] (page 3)

1927—Helped to negotiate sale of Pioneer Electric Light Company to Lehigh Power Securities Company.

Followed up progress of Conowingo Project.

Reported on financial condition of Lancaster County Railway and Light Company.

1928—Completed arrangements for building of Holtwood School.

Attended conferences with Public Service Commission in connection with Series "B" Bonds.

Attended meetings held by residents of Lancaster and York counties in connection with proposed highway bridge near Holtwood.

1929—Arranged loan to Pequea Fuel Company.

Further activities in connection with proposed highway bridge near Holtwood.

GENERAL—Beginning about 1917, the Lancaster Office approved lease and license agreements covering use and occupancy of our property, and assisted at times in collection of rents and sale of buildings, although these matters were handled in the field by our Local Property Agent at Holtwood. The Lancaster Office was always aware of the local labor situation and assisted in obtaining labor for construction work at Holtwood and the recovery of river coal.



In the period between 1930 and the present time, the Lancaster Office acquired properties for the Safe Harbor Development and for the Westport and Riverside transmission lines, and carried out other duties of a general character. As noted above, all expenses of the office except those charged to job orders were charged as operation. It is somewhat difficult to give a complete picture of the duties assigned to the Lancaster Office at the present time as they vary to some extent with conditions, but the following list covers some of the specific items.

1. To advise the Baltimore Office of local conditions which might have an effect upon the Company's relationship with its employees or the public.
2. To make investigations of applicants for employment. Because of Mrs. Bushong's position in the community, her wide acquaintanceship, and her family and other connections this phase of the work is handled with accuracy and speed; the reports are reliable and useful.
3. Upon request, to recommend persons to fill specific jobs when there are openings.
4. To adjust, or to suggest methods to adjust, policies or procedures of the Company which may be objectionable to individuals or groups in the community.

[24776] (page 4)

5. To advise the Company when there is an opportunity to earn the commendation of its employees or neighbors by taking some action at little trouble or expense, such as (a) the preservation of some historical relic; (b) the removal of an unsightly building; (c) arranging for maps or other data to be furnished to public authorities in connection with road relocations or other matters; (d) removal, from Company owned property, of tenants who are objectionable to adjoining residents or property owners; (e) use of Company property by Boy Scout or other



groups for recreational purposes; (f) use of Company property by fishermen—in this connection it should be noted that a total of 10,639 fishermen were registered at Holtwood and Safe Harbor between August 15 and November 30, 1945.

6. To advise the Company in connection with the many requests for contributions received from charitable, welfare, or business associations. Because of the number of such requests, it is important to have someone familiar with local conditions to advise as to the desirable and undesirable requests, and the propriety of making contributions.
7. To assist in the dissemination of information designed to prevent shooting at insulators on transmission lines, to show the danger of flying kites near transmission lines, and to bring to public attention similar matters which are helpful in protecting the public and in maintaining service over our system.
8. To furnish information as to developments in local industry.
9. To assist in adjusting local tax matters and to advise of changes in assessments, tax rates, etc.
10. To assist in obtaining tenants for properties, particularly those located near Lancaster, and to help in getting workmen and materials for maintenance; to help in adjusting insurance claims; to help in rent collections.
11. To keep in touch with old and new stockholders living in Lancaster County so as to get the personal ideas and suggestions of a small cross-section of our shareholders.
12. To get data from courthouse records when required.
13. To maintain duplicate files of deeds and other real estate records so that copies of file documents are always available in Lancaster.



14. To furnish clerical and stenographic service to employees of the Company from Baltimore or other offices, when working in Lancaster.

[24777] (page 5)

It is to be understood that the preceding items are not intended to limit the work of the Lancaster Office, but rather to give some idea of the specific duties assigned to Mrs. Bushong. There are probably many other matters referred to the Lancaster Office from time to time by other departments, such as requests for information on specific subjects from libraries or newspaper files, and other non-recurring matters which it would be difficult to enumerate.



Docket IT-5915

## PENNSYLVANIA WATER &amp; POWER COMPANY

Sheet 1 of 2

**SUMMARY OF LANDS AND RIPARIAN RIGHTS TRANSFERRED BY McCALL FERRY POWER COMPANY TO THE  
SUSQUEHANNA POWER COMPANY INTERESTS IN AUGUST 1908 SHOWING RELATIONSHIP TO TOTAL LANDS AND  
RIPARIAN RIGHTS ACQUIRED FROM THE HARLOW-MCGAW INTERESTS UNDER AGREEMENT OF APRIL 27, 1905**

Conowingo Parcel No.	Name of Property	Nature of Interest	Approximate Acreage (Note 2)	Acreage Transferred to Susq. Power Co. Interests	Acreage Retained by McCall Ferry Power Co.	Remarks
		(1)	(2)	(3)	(4)	
<b>A. TOTAL LANDS AND RIPARIAN RIGHTS ACQUIRED FROM THE HARLOW-MCGAW INTERESTS UNDER AGREEMENT OF APRIL 27, 1905 (NOTE 1)</b>						
<b>Proprietors of the Susquehanna Canal</b>						
Various	Land and riparian rights (Length of canal about 9 miles)	Fee	152.48	152.48		McCall Co. interest represented by the entire outstanding stock of "Proprietors" acquired from Harlow-McGaw in 1905 and transferred to the Susq. Power Co. interests in 1908.
<b>Tidewater Canal</b>						
H-29	Land and riparian rights (Length of canal about 14.25 miles)	Fee	286.82	286.82		Represents canal property formerly owned by Tidewater Canal Co.
<b>Susquehanna Canal and Power Co.</b>						
I-55	Canal property from the Penna.-Md. State line to the foot of Cullys Falls	Release	(7.50 Miles)	(7.50 Miles)		These entire properties were bought in 1902 for \$60,000 by Harlow-McGaw and conveyed to Susq. Canal and Power Co. Stock ownership of the latter company was acquired by McCall Co. from Harlow-McGaw in 1905 and retained.
-	Canal property from the foot of Cullys Falls to the Safe Harbor dam	Release	(8.32 Miles)		(8.32 Miles)	
-	Canal property from the Safe Harbor dam to Wrightsville, Penna.	Release	(11.68 Miles)		(11.68 Miles)	( Transferred to Safe Harbor Water Power Corporation in June 1930 by Pennsylvania Water & Power Company.
-	Else Island (Now listed as seven separate islands)	Fee	117.00		117.00	
-	Margaret Cunningham tract	Fee	3.00		3.00	
<b>Conowingo Land Company</b>						
C-10	J. C. Bell Estate (total acreage)	Fee	830.16	830.16		McCall Co. interest represented by ownership of two-thirds of the outstanding stock of Conowingo Land Co. acquired from Harlow-McGaw in 1905 and transferred to the Susq. Power Co. interests in 1908.
<b>Sundry Tracts Below the Holtwood Dam</b>						
H-1	Hugh E. Dooley	Fee	7.82	7.82		One-fourth undivided interest in acreage shown.
H-3	Daniel F. and Mary C. Landis (Hugh and Lizzie Whitford, et al.)	Fee	1.51	1.51		
H-4	(Sarah E. Dinmore, et al.)	Fee	4.38	4.38		One-fourth interest in acreage shown.
H-7	Otho S. Lee, Trustee (John's Design)	Fee	7.97	7.97		
H-28	Grace and Wm. J. Shure	Fee	3.97	3.97		
H-5	Farmers' Mutual Warehouse Co.	Fee	8.63	8.63		
H-6	Sarah E. Orr	Fee	45.40	45.40		
P-1	Wm. H. Bayless—"Progress"	Patent	296.79	296.79		Patent to river bed in Maryland.
P-2	Wm. H. Bayless—"New Enterprise"	Patent	1016.23	1016.23		
L-2	Taylor and Margaret Sprout	Fee	1.19	1.19		
L-28	Thomas and Ada B. McSparren	Fee	1.74	1.74		
I-30	Rosanna J. Long	Fee	0.82	0.82		
L-35	Stephen J. Caldwell (Bailie Sechler)	Fee	3.01	3.01		
L-36, 37	Wm. Sweigart	Fee	2.09		See "Remarks"	( McCall Co. transferred the fee on a portion of this acreage ( and flowage rights on the remainder.
Y-29	L. H. and Deanie Sample	Fee	1.94	1.94		
Y-50	John and Margaret Scott	Fee	9.57	9.57		
Y-51	A. R. and Mary H. Kilgore (1/2 interest)	Fee	26.91		See "Remarks"	( McCall Co. transferred the portion of this tract below ( Cullys Falls.
I-10, 13	Christian E. Herr, et al. (Bear's Island)	Fee	120.00	120.00		
I-30	T. L. and Margaret A. Urban (Mt. Johnson Is.)	Fee	75.00	75.00		



Docket IT-5915

## PENNSYLVANIA WATER &amp; POWER COMPANY

Sheet 2 of 2

**SUMMARY OF LANDS AND RIPARIAN RIGHTS TRANSFERRED BY McCALL FERRY POWER COMPANY TO THE  
SUSQUEHANNA POWER COMPANY INTERESTS IN AUGUST 1908 SHOWING RELATIONSHIP TO TOTAL LANDS AND  
RIPARIAN RIGHTS ACQUIRED FROM THE HARLOW-McGAW INTERESTS UNDER AGREEMENT OF APRIL 27, 1905**

Conowingo Parcel No.	Name of Property	Nature of Interest (1)	Approximate Acreage (Note 2) (2)	Acreage Transferred to Susq. Power Co. Interests (3)	Acreage Retained by McCall Ferry Power Co. (4)	Remarks
<b>B. ADDITIONAL LANDS OWNED BY McCALL FERRY POWER COMPANY</b>						
<b>TRANSFERRED TO SUSQUEHANNA POWER INTERESTS IN AUGUST 1908</b>						
<b>Sundry Tracts Acquired from Cary T. Hutchinson in June 1905</b>						
Y-4	Levi Cooper	Fee	16.50	16.50		
Y-6	Charles S. Cooper	Fee	9.85	9.85		
Y-17	Ida B. McLaughlin	Fee	12.33	12.33		
Y-30	Rachel K. Robinson, et al.	Fee	18.08	18.08		
Y-33	Wm. T. Ramsey, et al.	Fee	0.15	0.15		
Y-34	S. D. and Emma E. Fry (God Cabin Tract)	Fee	9.27	9.27		
Y-45, 48	Marcenas Craig	Fee	9.76	9.76		
I-18	White or Chestnut Island	Fee	15.18	15.18		
I-39	Mud Island	Fee	2.45	2.45		
<b>Sundry Additional Tracts</b>						
I-26	Henry C. Demuth (Beach Island)	Fee	1.94	1.94		
L-38 to 41	Wm. A. Brown (Tracts 1, 2, 3, 4)	Fee	43.17	43.17		
L-48	Henry C. Demuth	Fee	5.16	5.16		
L-49	Mary I. Cutler	Fee	1.04	1.04		
L-54	Amer Kline	Fee	59.00			See "Remarks"
						( McCall retained the fee on the entire acreage, transferring flowage rights to the Susquehanna Power Co. interests on the portion of the tract below Cullys Falls.

## Note (1):

In addition to the listed properties, the McCall Co. also acquired from Harlow-McGaw the capital stock of several inactive companies, a release from the Tidewater and Susquehanna River Railroad regarding its proposed right of way (never acquired), and a release from the Conowingo Bridge Co. McCall Co. transferred all of these additional items to the Susquehanna Power Co. interests in 1908 with the exception of the stock of two of the inactive companies. These latter two companies have since been dissolved by Pennsylvania Water & Power Company.

## Note (2):

The above acreages were taken from the F.P.C. staff accounting report on the actual legitimate original cost of the initial Conowingo project (Part II, Volume II, Schedule B), except for the property of Susquehanna Canal and Power Co. The acreage of the Susquehanna Canal is unknown, therefore, the approximate length in miles is given as furnished by R. L. Bortner, Assistant Secretary of Pennsylvania Water & Power Co. The acreages of Elise Island and the Cunningham tract were taken from the Safe Harbor and Holtwood project map indices.



Docket IT 5915

## PENNSYLVANIA WATER &amp; POWER COMPANY

CALCULATION OF APPROXIMATE COST OF THE HARLOW-McGAW LANDS  
RETAINED BY McCALL FERRY POWER COMPANY AFTER THE SALE OF  
THE LANDS BELOW CULLY FALLS TO THE SUSQUEHANNA POWER COMPANY  
INTERESTS IN 1908.

Cash paid to Harlow-McGaw	\$200,432
\$250,000. McCall bonds at 90	225,000
Cash paid for Pullen options	10,022
Legal services, Note (1)	19,000
Expenses re: Susq. Power Co. condemnation suit	<u>23,000</u>

477,454

Less land sold to Susq. Power Co. interests

Proceeds of entire sale	\$290,000
-------------------------	-----------

Deduct portion of proceeds applied  
by Penn Water in its original  
cost study to properties acquired  
from other owners than Harlow-  
McGaw

13,370

Net proceeds applicable to Harlow-McGaw lands	<u>186,630</u>
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290,824

Interest at 6% on expenditures to  
January 1, 1911 (less cessation period)

89,000\$379,824

Note (1) Represents legal fees paid by Susquehanna Contracting Company to Simpson Thacher & Bartlett (\$47,307), and Lorenzo Semple (\$5,000) allocated to the Harlow-McGaw purchase in the ratio of the amount paid for these properties in 1905 (\$435,000) to the total amount paid for the Harlow-McGaw and Hutchinson properties, (\$1,185,000).



[24786]

Exhibit No. 451

4449

May 22, 1945

LITIGATION - COURT OF COMMON PLEAS  
LANCASTER COUNTY

Defendant - P.W.&amp;P.Co.

Plaintiff	Date Filed	Reference	Disposition	Nature of Case
Nicola Di Silivestro by his brother and next friend Atira Di Silivestro	9/21/10	Oct. Term 1910 No. 9	Discontinued 11/9/10	Trespass
C. F. Quade	9/26/10	Oct. Term 1910 No. 187	Service of writ accepted 10/3/10 W. U. Hensol, Atty.	"
County of Lancaster	9/2/11	Sept. Term 1911 No. 40	Service accepted "Praecipe filed" W. U. Hensol, Atty.	"
Samuel & Grace Harmer et al Susan Henry, John Henry and A.B. Witmer, Gdn of Chester Stigelman Benjamin Stigelman, and Henry Stigelman, Minors J.E. Senft, Attorney	3/24/13	April Term 1913 No. 39	"Praecipe filed" Service accepted W. U. Hensol, Atty.	"
San Montilovic (Coyle & Keller Attorneys)	6/12/14	Aug. Term 1914 No. 22	Service accepted John E. Malone Settled and ended Coyle & Keller 4/23/15	"
Emanuel S. Munna	4/12/15	May Term 1915 No. 7	Continued 11/19/17 Costs unpaid	"



May 22, 1945

2

LITIGATION - COURT OF COMMON PLEAS  
LANCASTER COUNTY

Defendant P.W. &amp; P.Co.

Plaintiff	Date Filed	Reference	Disposition	Nature of Case
Emanuel S. Muma	4/12/15	May Term 1915 No. 6	Costs unpaid Continued 11/19/17	Trespass
Lanc. & York Furnace Railway Co.	7/27/18	Aug. Term 1918 No. 118	Settled 10/7/21 F.L. Windolph, Atty.	"
Colemanville Water & Power Co.	7/27/18	Aug. Term 1918 No. 119	Settled 10/7/21 Chas. F. Hager, Atty.	"
Christian F. Quade	8/6/18	Aug. Term 1918 No. 134	Def't's affidavit of defense filed 1/10/22	"
Alice M. Tripple	8/17/18	Sept. Term 1918 No. 25	Settled 10/7/21 F.L. Windolph, Atty.	"
Township of Conestoga By Harry W. Warfel F.S. Harnish M.S. Lefevre, Supervisors	9/15/19	Oct. Term 1919 No. 53	Continued 1/24/22 Costs Paid 5/5/23	"
Annie M. Ruppert	6/17/22	Aug. Term 1922 No. 27	Service of Writ accepted, J.E.H. Case discontinued Costs Paid	"
Harvey Ruth	6/17/22	Aug. Term 1922 No. 28	Service of Writ accepted, J.E.H. Case discontinued. Costs paid	"
Grace Hammer Susan Henry Chester Steigelman Benjamin Steigelman A.B. Witner, Guardian of Sophia Hammer and Harry Steigelman	9/21/23	Oct. Term 1923 No. 39	Suit settled and ended Costs paid 12/12/24 H. Edgar Sherts, Attorney	"
Louise Depue, Extra of Will Arthur W. Depue and Louise Depue individually	11/18/24	Dec. Term 1924 No. 30	Settled 1/2/26 Windolph, Atty	"



May 22, 1945

37

## Litigation Court of Common Pleas of Lancaster County

Plaintiff	Date Filed	Reference	Disposition	Nature of Case
Amos Spahr (vs. Harry Lindeman trading as the Lindeman Co.	5/14/25	June Term 1925 No. 24	Judgment against Lindeman & Co. 6/7/26	Attachment on Chattel
Amos Spahr - etc. "	6/8/26	June Term 1926 No. 93	P.W.&P. Co. suffers non-suit 4/25/27	
Benj. F. Brady	1/14/26	Feb. Term 1926 No. 26	Continued 11/29/26	Trespass
Mary M. Hartman	1/19/35	Feb. Term 1935 No. 184	Settled 12/19/38 Jas. N. Lightner Attorney	" See Equity Docket 8 page 278
Annie W. Shoff	7/9/35	Aug. Term 1935 No. 55	Settled - Costs Paid 9/26/42 Jas. N. Lightner Attorney	Trespass



May 22, 1945

Equity Cases - P.W.&P. Co., Defendant

Plaintiff	Date Filed	Reference	Disposition	Nature of Case
Sam'l M. Fulton, Assignee for benefit of creditors of John Bair	7/21/10	Docket No. 5 Page 261	Settled 6/3/15	Injunction to prevent flooding of Pltff's land by erection of dam
Wm. F. Beyer	7/31/11	Docket No. 5 Page 311	Opinion read & filed 8/26/11	Injunction to prevent use of flash boards
B. F. Davis	8/15/11	Docket No. 5 Page 327	Opinion read & filed 8/26/11	Injunction to prevent use of flash boards
Lanc. Electric Light, Heat & Power Co.	7/31/11	Docket No. 5 Page 307	Opinion read & filed 8/26/11	Injunction to prevent use of flash boards
H.M. Stauffer & Co.	8/15/11	Docket No. 5 Page 331	Opinion read & filed 8/26/11	Injunction to prevent use of flash boards
Daniel M. Witmer	8/15/11	Docket No. 5 Page 323	Settled 3/25/13	" " "
Wilson Woelpper	6/11/12	Docket No. 5 Page 377	Settled 7/6/16	" " "
Lanc. & York Furnace Street Rwy. Co.	7/27/18	Docket No. 6 Page 249	Settled 10/7/21	" " "
Colemanville Water & Power Company	7/27/18	Docket No. 6 Page 251	Settled 10/7/21	" " "
John E. Vandersloot	8/31/18	Docket No. 6 Page 263	Settled 10/8/21	Restrain Def't. from flooding Pltff's land and claim for past damages
Alice M. Tripple	9/5/18	Docket No. 6 Page 266	Settled 10/7/21	Injunction to prevent use of flash boards
Annie W. Shoff	3/26/29	Docket No. 7 Page 532	Settled 10/4/33	" " "
Mary M. Hartman	8/29/33	Docket No. 8 Page 278	Settled 6/25/40	" " "



## EXHIBIT NO. 452.

[24790]

## YORK COUNTY—EQUITY

John A. Nauman and Coyle & Keller	SAMUEL M. FULTON, ASSIGNEE FOR THE BENEFIT OF CREDITORS OF JOHN BAIR, PLAINTIFF	Equity. Docket No. 9, p. 64 July 26, 1910
W. U. Hensel	PENNSYLVANIA WATER & POWER COMPANY	August Term, 1910

July 19, 1910. Bill of Complaint filed—injunction to restrain from flooding plaintiff's land.

July 26, 1910. Petition for service filed.

Aug. 5, 1910. Appearance of W. U. Hensel for defendant.

Aug. 3, 1910. Served bill in equity on defendant—John H. Schinn, Sheriff.

Sept. 9, 1910. Answer filed—W. F. Beyers & W. U. Hensel.

Sept. 21, 1910. Replication filed.

June 5, 1915. Above suit discontinued, settled and ended (vide paper filed) Costs paid.



[24791]

## YORK COUNTY—EQUITY

Niles &amp; Neff JOHN EDWARD VANDERSLOOT

vs.

John E.  
Malone  
Stewart &  
Gerber

PENNA. WATER &amp; POWER Co.

Equity Docket No. 13,  
p. 250

Sept. 13, 1916

October Term, 1916

Sept. 13, 1916. Bill of Complaint filed—use of flashboards and flooding—damage claim. Petition for order of service filed.

Sept. 16, 1916. Served Bill in Equity—Wm. D. Haas, Sheriff York County. C. G. Garber, Sheriff Lancaster County.

Sept. 28, 1916. Appearance of John E. Malone and Stewart & Gerber for defendant.

Oct. 16, 1916. Motion to vacate order of court and set aside bill served.

Dec. 11, 1916. Argument list.

Feb. 12, 1917. Motion refused at cost of defendant.

Feb. 27, 1917. Ruling of court filed.

Mar. 7, 1917. Hearing and argument by court—motion of 10/16/16 refused and ordered defendant to file answer to plaintiff's bill within 30 days.

Mar. 15, 1917. Exceptions to decree filed.

Mar. 21, 1917. Exceptions of defendant to decree entered 3/7/17 dismissed.

Apr. 7, 1917. Appeal by defendant from decree of 3/21/17—bond on appeal to Supreme Court filed and bond and security approved.



- Apr. 9, 1917. Certiorari from Supreme Court of Pa. to Court of Common Pleas for York County filed. Returnable 5/2/17; also rule on Appellee to appear and plead on return-day of writ.
- Apr. 10, 1917. Service of rule accepted by appellee—certificate of value filed.
- July 11, 1917. Assignment of error sustained by Supreme Court of Pa. and Order of Court below reversed and service of bill set aside; appellee to pay costs.
- July 12, 1917. Defendant's bill of costs filed.



[24792]

YORK COUNTY  
COURT OF COMMON PLEAS

Samuel K.  
McCall  
J. Edgar  
Small  
Stewart &  
Gerber

CLARK F. WILSON

vs.

PENNA. WATER &amp; POWER CO.

July 14, 1930

Aug. Term 1930

Docket 240, page 156

Summons in ejectment for unseated and unoccupied premises in Lower Chanceford Township, York County.

7/14/30—Plaintiff's affidavit filed.

Plaintiff's declaration and abstract of title, with notice to defendant to file plea, answer, and abstract of title as required by Act of 5/8/1901, P. L. 142 and rule #185 of Court of Common Pleas, York County, within 30 days.

7/15/30—Served writ of ejectment.

9/13/30—Defendant's plea filed—answer and abstract of title filed.

11/30/30—Plaintiff's amended declaration and amended abstract of title filed.

12/ 8/30—Defendant's amended answer and amended abstract of title filed—defendant's plea filed.

2/ 2/31—Motion to amend summons in ejectment and amended summons in ejectment as allowed filed, and 30 days given defendant to file its answer. Plaintiff's second amended declaration and amended abstract of title filed.

3/ 2/31—Defendant's second amended answer and second amended abstract of title filed.  
Defendant's plea filed.

12/ 8/31—Motion to amend summons in ejectment filed and amendment of summons in ejectment allowed.



12/ 8/31—Plaintiff's third amended declaration and amended abstract of title filed, and amendment of declaration in ejectment allowed.

1/ 5/32—Defendant's third amended answer and third amended abstract of title filed.  
Defendant's plea filed.

4/26/32—Trial ordered by Hon. Henry C. Niles, P. J.

4/28/32—Jury called.

4/28/32—Plaintiff's and defendant's points filed and answer by Court. Stipulation showing description of disputed area filed.

4/30/32—Plaintiff's bill of costs filed.

5/ 2/32—Motion for new trial filed.

5/ 2/32—Plaintiff's bill of costs, supplement filed.

5/23/32—Stenographer's transcript lodged.

6/ 6/32—Stenographer's transcript filed.

9/ 6/32—Death of Clark F. Wilson announced and following next in interest substituted; Sarah E. Fleming, Jas. M., John B., Raymond D., and Martin V. Wilson.

[24793]

10/19/32—Motion to withdraw motion for new trial filed, and permission granted.

10/25/32—Judgment entered in favor of plaintiffs against defendant for possession of 12 acres (described). All names of plaintiffs withdrawn except Sarah E. Fleming.



[24794]

YORK COUNTY  
COURT OF COMMON PLEAS

Hooper

HENRY G. HEINEMEYER

vs.

July 3, 1941

Aug. Term, 1941

F. B. Gerber

PENNA. WATER &amp; POWER Co.

Docket 284, page 162

Summons in trespass returnable first Monday in August, 1941.

7/12/41—Writ served.

11/19/43—Plaintiff's statement of claim with notice to defendant to file affidavit of defense within 15 days.

11/30/43—Motion to strike off plaintiff's statement of claim filed and rule granted to show cause why plaintiff's statement of claim should not be stricken off.

12/ 1/43—Service of copy of motion and rule accepted.

6/19/44—Rule stricken off will be absolute unless amended statement of claim is filed in compliance with opinion within 15 days, in which event rule will be discharged by court.

6/28/44—Amended statement with notice to defendant to file affidavit of defense within 15 days.

10/ 5/44—Settled and satisfied—costs paid.

Hooper

MINNIE C. HEINEMEYER AND  
EDWARD F. HEINEMEYER

vs.

July 3, 1941

Aug. Term, 1941

F. B. Gerber

PENNA. WATER &amp; POWER Co.

Docket 284, page 163

Summons in Trespass.

Procedure same as above.



**EXHIBIT NO. 453.**

[24795]

**IN THE COURT OF COMMON PLEAS OF  
LANCASTER COUNTY**J. M. Groff  
W. Clarke  
Mason

WILSON WOELPPER

vs.

PENNSYLVANIA WATER AND POWER  
COMPANY

Equity Docket No. 5

Page 377

Bill of Complaint

Entered and filed Au-  
gust 15, 1911.Hensel  
Malone  
Nauman

- July 27, 1912. Appearance of W. U. Hensel, Esq., in writing filed.
- July 18, 1912. Defendant's answer filed.
- June 10, 1914. Replication filed by Plaintiff.
- Oct. 5, 1914. On trial list, tried.
- Oct. 30, 1914. Notes of testimony lodged.
- Dec. 21, 1914. On argument list; argued C. A. V.

And now January 16, 1915. Opinion read and filed, and the Court makes the following decree to be entered, to wit:

That the defendant, its agents and employees are hereby enjoined and restrained from increasing the height of its dam, which is constructed across the Susquehanna River at or near McCall's Ferry, by at any time in the future placing flash boards or any other device upon the crest of said dam, so as to cause the water of the said Susquehanna River to back and flow into the Tucquan Creek and overflow and injure the lands of the Plaintiff, located along the same.

CHAS. I. LANDIS, P. J.

- January 21, 1915. Exceptions to the opinion and decree filed.
- Mar. 4, 1915. Appearance of John E. Malone and John A. Nauman, Esqs., in Writing filed for Defendant.
- Mar. 15, 1915. On argument list; submitted C. A. V.



[24796]

## OPINION

And now, March 20, 1915, this cause came on to be heard at this Term of the Argument List, upon the exceptions duly filed to the opinion and decree entered January 16, 1915, and the same having been argued by counsel, upon further consideration thereof, it is ordered, adjudged and decreed as follows:

That the defendant, its agents and employees, are hereby enjoined and restrained from increasing the height of its dam, which is constructed across the Susquehanna River, at or near McCall's Ferry, by at any time in the future placing flash boards, or any other device, upon the crest of said dam, so as to cause the water of the said Susquehanna River to back and flow into the Tucquan Creek, and overflow and injure the lands of the plaintiff located along the same.

CHAS. I. LANDIS, P. J.

Defendant excepts. Bill of Exceptions signed and sealed.

CHAS. I. LANDIS, P. J.

Bail  
fixed for  
Appeal

} Mar. 27, 1915. The defendant desiring to appeal from the decree of the Court in above case. Court fixes the bail for the appeal at the sum of \$1,000.00.

Mar. 27, 1915. Defendant appeals to Supreme Court. Bond filed in \$1,000.00.

Mar. 30, 1915. Writ of Certiorari from Supreme Court filed.



July 14, 1915. Remittitur from Supreme Court filed, the assignments of error are overruled, the decree of the Court below is affirmed and this appeal is dismissed at the cost of appellant.

And now July 6, 1916 the above proceedings are settled and ended.

Jno. M. Groff  
Attorney for Plaintiff.



[24797]

IN THE COURT OF COMMON PLEAS OF  
LANCASTER COUNTY

F. Lyman  
Windolph  
S. Schaeffer  
Wm. H.  
Keller

LANCASTER AND YORK FURNACE  
STREET RAILWAY COMPANY,  
*Plaintiff*

*and*

John E.  
Malone

THE PENNSYLVANIA WATER AND  
POWER COMPANY

Equity Docket No. 6  
Page 249

Bill of Complaint

Entered and Filed July  
27, 1918.

- July 27, 1918. Appearance of John E. Malone, Esq., in writing filed for Defendant.
- July 29, 1918. Copy of bill served on John E. Malone, Esq.
- Sept. 17, 1918. Printed answer of Defendant filed.
- Dec. 16, 1918. On argument list, continued.
- Dec. 20, 1918. Replication filed.
- Mar. 3, 1919. On Equity List, continued.
- Oct. 6, 1919. On Equity List, continued.
- Mar. 1, 1920. On Equity List, continued.
- Mar. 13, 1920. Defendant's amended answer filed.
- Mar. 26, 1920. Exceptions to Defendant's amended answer filed.
- June 21, 1920. On Argument List, submitted C. A. V.
- June 26, 1920. Opinion read and filed and exceptions to Defendant's amended answer sustained and Defendant ordered to file an answer within ten days after filing this Opinion.
- July 26, 1920. Amendment to Defendant's amended answer filed.



**Exhibit No. 453**

**4463**

Sept. 27, 1920. On Equity List, continued on account of serious illness of the father of F. A. Aliner, a material witness for Defendant.

Mar. 7, 1921. On Equity List, continued by consent.

Oct. 7, 1921. This suit is discontinued, settled and ended.

F. LYMAN WINDOLPH  
(of counsel for Plaintiff).



[24798]

IN THE COURT OF COMMON PLEAS OF  
LANCASTER COUNTY

Windolph  
Chas. F.  
Hager  
Wm. H.  
Keller

COLEMANVILLE WATER AND POWER  
COMPANY,

*Plaintiff*

*and*

THE PENNSYLVANIA WATER AND  
POWER COMPANY

John E.  
Malone

Equity Docket No. 6

Page 251

Bill of Complaint

Entered and filed July  
27, 1918.

- July 27, 1918. Appearance of John E. Malone, Esq., in writing filed for Defendant.
- July 29, 1918. Bill served on John E. Malone, Esq.
- Sept. 17, 1918. Printed answer of Defendant filed.
- Dec. 16, 1918. On Argument List, continued.
- Dec. 20, 1918. Replication filed.
- Mar. 3, 1919. On Equity List, continued.
- Oct. 6, 1919. On Equity List, continued.
- Mar. 1, 1920. On Equity List, continued.
- Mar. 13, 1920. Defendant's amended answer filed.
- Mar. 26, 1920. Exceptions to Defendant's amended answer filed.
- June 21, 1920. On Argument List, submitted C. A. V.
- June 26, 1920. Opinion read and filed and exceptions to Defendant's amended answer sustained, and we order and direct the Defendant to answer fully the Plaintiff's Bill, concerning the matters embraced in the exceptions, and direct that said answer shall be filed within ten days after the handing down of this opinion.

CHAS. I. LANDIS, P. J.



July 26, 1920. Amendment to Defendant's amended answer filed:

Sept. 27, 1920. On Equity List, continued on account of serious illness of the father of F. A. Allner, a material witness for Defendant.

Mar. 7, 1921. On Equity List, continued by consent.

Oct. 7, 1921. This suit settled and ended.

Charles F. Hager,  
Solicitor for Plaintiff.



[24799]

IN THE COURT OF COMMON PLEAS OF  
LANCASTER COUNTY

Niles & Neff  
Coyle

JOHN EDWARD VANDERSLOOT,

*Plaintiff*

vs.

John E.  
Malone

PENNSYLVANIA WATER AND POWER  
COMPANY,

*Defendant*

Equity Docket No. 6  
Page 263

Bill of Complaint

Entered and Filed Au-  
gust 31, 1918

Sept. 16, 1918. Appearance of John E. Malone, Esq.,  
counsel for Defendant in writing filed.

Nov. 5, 1918. Defendant's answer to Bill of Complaint  
filed.

Dec. 2, 1918. Niles and Neff and Coyle and Keller, At-  
torneys for Plaintiff move the Court  
that said issue raised by said answer  
shall be decided *in limine* before a hear-  
ing of the cause upon its merits, as pro-  
vided by the Act of 1907, P. L. 440, and  
*secundum regulum*.

Dec. 20, 1918. Replication filed.

Mar. 3, 1919. On Equity List, continued.

Mar. 1, 1920. On Equity List, continued.

Sept. 27, 1920. On List, continued on account of serious  
illness of the father of F. A. Allner, a  
material witness for Defendant.

Mar. 7, 1921. On Equity List and tried March 8, 1921.

Apr. 27, 1921. Notes of testimony lodged.

Oct. 8, 1921. This suit is settled and ended.

JOHN A. COYLE

Attorney for Plaintiff.



[24800]

IN THE COURT OF COMMON PLEAS OF  
LANCASTER COUNTY

F. Lyman  
Windolph

ALICE M. TRIPPLE,  
*Plaintiff*

vs.

John E.  
Malone

THE PENNSYLVANIA WATER AND  
POWER COMPANY

*Defendant*

Equity Docket No. 6

Page 266

Bill of Complaint

Entered and Filed  
September 5, 1918.

- Sept. 13, 1918. Printed Bill filed.
- Sept. 13, 1918. Appearance of John E. Malone, Esq., in writing filed for Defendant.
- Sept. 17, 1918. Printed answer of Defendant filed.
- Jan. 29, 1919. Replication filed.
- Mar. 3, 1919. On Equity List, continued.
- Oct. 6, 1919. On Equity List, continued.
- Mar. 1, 1920. On Equity List, continued.
- Mar. 13, 1920. Defendant's amended answer filed.
- Sept. 27, 1920. Continued on account of the serious illness of the father of F. A. Allner, who is a material witness for defendant.
- Mar. 7, 1921. On Equity list and continued by consent.
- Oct. 7, 1921. This suit is discontinued settled and ended.

F. LYMAN WINDOLPH

Solicitor for Plaintiff.



[24801]

IN THE COURT OF COMMON PLEAS OF  
LANCASTER COUNTYWillis G.  
Kendig

ANNIE W. SHOFF

vs.

John E.  
MaloneTHE PENNSYLVANIA WATER AND  
POWER COMPANY

Equity Docket No. 7

Page 532

Bill of Complaint

Entered and Filed

March 26, 1929.

Mar. 26, 1929. Service accepted for Defendant by John E. Malone, Esq.

Mar. 27, 1929. Appearance of Willis G. Kendig, Esq., Attorney for Plaintiff in writing filed.

Apr. 8, 1929. Appearance of John E. Malone, Esq., Attorney for Defendant in writing filed.

Apr. 27, 1929. Defendant's answer filed.

May 4, 1929. Replication filed.

June 3, 1929. On equity list, continued by consent.

Oct. 7, 1929. On equity list, continued by consent.

Oct. 4, 1933. The above complaint is settled, ended and costs paid.

WILLIS G. KENDIG



EXHIBIT NO. 454.

[24802]

June 25, 1924

Mr. M. E. Bushong, Real Est. Agent  
636 Woolworth Building  
Lancaster, Pa.

Dear Sir:

1. As indicated to you, I am asking you to assume the responsibility of following up the moves that are made in connection with the organization of the Holtwood Power Company, to the end that we may get our bonds issued at the earliest possible moment, get the legal matters and governmental applications and approvals in proper shape, and see that before Mr. Malone's departure arrangements are made with others to carry on the work as Mr. Malone has planned.

2. I am putting down hereunder my idea of some of the most important things to be attended to. I am not a lawyer and this list may not be complete, nor may it be correct, but since you are in constant touch with Mr. Malone I look to you, with this as a basis, to draw up your own list for your guidance and send me a copy thereof.

3. Organization of Holtwood Power Company:

Mr. Malone advises in his letter of June 18th that application for the charter of the Holtwood Power Company was filed June 16th with the Secretary of the Commonwealth.

4. Advertisements of intention have to be made in certain Journals a certain number of times. Please advise me of the names of the Journals and of the dates. I assume that the first advertisement was June 20th and that the subsequent advertisements would be June 27th, July 4th and July 11th.



5. At the expiration of the period of advertising the petition for charter, accompanied by affidavits as to advertisement, have to be filed with the Secretary of the Commonwealth, who, I assume, certifies same to the Public Service Commission, that all laws relative to incorporation, etc. of the proposed company have been complied with. I assume you will do your best to arrange in advance that such certification be forwarded by the Secretary of the Commonwealth with the least possible delay after his receipt thereof.

6. After having received endorsement of the Public Service Commission I assume that the papers are returned to the Secretary of the Commonwealth to be certified to the Governor. You have already taken steps in regard to doing the utmost possible to avoid delay in having these papers lay over, unsigned, on the Governor's desk and it is assumed that you will follow up this matter.

7. I assume that before the Public Service Commission can consider the application for charter, it must be presented with the application for certificate [24803] (page 2) of Public Convenience. Certain data required for the application was sent to Mr. Malone June 20th. I believe you have procured the information required to answer Section VI. You were given in New York certain (but not complete) information regarding our financing plans. I have been discussing the bond circular with Mr. Aldred and with Minsch, Monell & Co. today and we think it is in its final form, so that when I see you tomorrow afternoon I will give you further details of the financing plan. I do not know when the Certificate of Public Convenience has to be filed, nor whether it has to be advertised, nor what period of notification to the public or to public service companies interested, the Public Service Commission expects to give before it grants the hearing; nor when the hearing might be held; nor what length of time might be expected to elapse after the hearing before approval by the Public Service Commission; nor whether endorsements of consent on the



part of other Public Service Companies operating in Martie Township would facilitate matters before the Public Service Commission.

8. I assume that after the signing of the Letters Patent by the Governor they will have to be recorded in Lancaster and that only after that may the Company be considered as organized.

9. Then arrangements must be made for the increase of the capital stock, for the bond issue, and for the substitution of the new Board and Officers for the organizing Board and Officers. I assume that by that time you will require:

- (a) The Deed of Trust.
- (b) The financing agreement between Penna. W. & P. Co. and Holtwood Power Co.
- (c) Application form to be presented to Public Service Commission for approval to enable P. W. & P. Co. to acquire all the stock (except Directors qualifying stock) of Holtwood Power Co.
- (d) Certificate of notification filled out to be filed with Public Service Commission prior to the stock issue.
- (e) Certificate of notification to be filed with Public Service Commission prior to issue of the bonds.
- (f) Deed from P. W. & P. Co. to Holtwood Steam Company of site for steam plant.
- (g) Certificates from Mr. Malone, Judge Stewart and Senator Reed's firm in connection with the Deed of Trust.
- (h) Deed with plan accompanied by certificates of Counsel and engineer for release by Trustees of P. W. & P. Co.'s mortgages of steam plant site, together with minutes of P. W. & P. Co.'s Directors meeting.

10. I assume the above will be followed by a recording of the Deed of Trust in Lancaster.



[24804] (page 3)

11. Within thirty days from the issue of the securities, I assume you will be required to file with the Public Service Commission proper notifications that the security issues have been made.

12. I assume that Mr. Malone will draw, or have drawn, the appropriate Minutes of the Stockholders and Directors meetings of Holtwood Power Company and that you will provide for the necessary notarial signatures.

13. In connection with the above, as you know, we expect to make sale against the bonds when, as and if, before July 4th, and that interim trust certificates will be issued against the definitive bonds. The form of these certificates and the form of the bonds is to be worked up by Simpson, Thacher & Bartlett, and Mr. Allen in New York is to follow up this matter and to attend to the printing and engraving. I will ask Mr. Allen to send us the necessary data regarding the Minutes of the last meeting of the P. W. & P. Co. to give Mr. Malone. I am enclosing herewith a copy of the By-Laws of the P. W. & P. Co. to which it may be advisable to have the by-laws of the Holtwood Power Company conform.

14. In connection with the list of officers and directors sent you previously, we will wish to make an addition. The matter of who should sign the letter appearing in the bond circular was discussed, and though it is desirable to have the letter signed by the President, Mr. Clarke, yet the latter's absence in Europe makes this impossible, and it was not deemed advisable to try to secure his approval by cable. It did not seem desirable to have a letter signed by a Vice-President, so it was finally arranged that Mr. Aldred would sign as Chairman of the Boards of both Companies. We shall, therefore, wish to provide that the Holtwood Power Company elect Mr. Aldred as Chairman of its Board.



**Exhibit No. 454**

**4473**

15. I assume you will let me know just what work Mr. Malone during his absence will wish to have carried out by Mr. Zimmermann, and what by Judge Stewart.

Yours very truly,

**J. A. WALLS**

Vice Prest. & Chief Engr.

**JAW\*R**



4474

Exhibit No. 455

**EXHIBIT NO. 455**

[24805]

MARVIN E. BUSHONG  
R.F.D. No. 4  
Quarryville, Pa.

June 28, 1924.

Mr. J. A. Walls, Vice Prest. & Chief Engr.  
Pennsylvania Water & Power Co.  
Lexington Building  
Baltimore, Maryland

Dear Sir:

In reply to your letter of June 25th I wish to submit the following tentative sketch subject to revision at your suggestion, and after having received Mr. Malone's suggested revision:

3. Has been covered and disposed of.

4. The advertisements have been placed and are now running in the following papers, viz: Law Review, June 20, June 27, and July 4. Lancaster New Era, June 27, July 4, and July 11. I am enclosing herewith a copy of each advertisement.

5. Mr. Malone has made arrangements for the certification to be forwarded by the Secretary of the Commonwealth to the Public Service Commission. I will follow this up and will have the proper affidavits prepared, signed, and filed as to advertisement.

6. Mr. Malone will leave a schedule to take care of this subject through Mr. Zimmerman.

7. The application for certificate of Public Convenience has been mailed to the Public Service Commissioners. The completion of this will be attended to by Mr. Zimmerman.



8. I will look after the recording of the charter in Lancaster.

9. In the matter of the permanent organization of the new Company, permit me to suggest that Mr. Rintoul have prepared a stock certificate book for the Holtwood Power Company, and that he provide the usual Pennsylvania stock transfer stamps and Federal Revenue Stamps to be used on the certificates when issued. Under the United States law we will be required to affix stamps in the amount of five cents per share of a par value of \$100.00 on the original issue of stock of the Holtwood Power Company and two cents per \$100.00 on each transfer. Under the Pennsylvania law we do not have to affix any stamps on original issue of stock but on each transfer after the original issue we are required to affix two cents for each share of a par value of \$100.00. I would suggest that Mr. Rintoul have prepared a proper seal for the Holtwood Power Company. Mr. Malone is leaving a schedule with the minutes covering the increase of the capital stock, bond issue, and for the substitution of the new Board of Directors for the Holtwood Power Company.

- (a) I assume that you will procure the Deed of Trust from the New York attorneys.

[24806] (page 2)

- (b) I am assuming that the financing agreement between P.W. & P.Co. and Holtwood Power Company will come from the New York attorneys through you.
- (c) The application form to be presented to Public Service Commission for approval to enable P.W. & P.Co. to acquire the stock of Holtwood Power Company will be prepared by Mr. Malone.
- (d) The certificate of notification to be filed with the Public Service Commission prior to the stock issue should be filled out by Mr. Rintoul.



- (e) The certificate of notification to be filed with the Public Service Commission prior to the issue of bonds should also be filled out by Mr. Rintoul. Both of these blanks are being obtained by Mr. Malone.
- (f) Mr. Malone will prepare the deed from the P.W.&P.Co. to Holtwood Power Company for the site for the steam plant, data for which you are furnishing.
- (g) Certificates from Mr. Malone and Judge Stewart in connection with the Deed of Trust will come from them without difficulty. Mr. Malone has already obtained the certificate from Senator Reed's offices as you know.
- (h) The release by Trustees of the P.W.&P.Co's. mortgages of the steam plant site, together with the minutes of the P.W.&P.Co's Directors meeting should come from Simpson, Thacher & Bartlett.

10. I will see to the recording of the Deed of Trust in Lancaster as soon as it is adopted by the Board of Directors.

11. The notifications that the security issues have been made will have to be prepared by the Officers of the Holtwood Power Company, and I will see that they have the proper blanks and that the filing of these notifications is attended to.

12. The Minutes of Stockholders and Directors meetings mentioned under Paragraph 9, will cover the suggestions mentioned in Paragraph 12, with the exception of the notarial services which I will provide by having Miss Wiley of the Conestoga Traction Company in attendance at the meetings.

13. I have sent a copy of the By-Laws of the P.W.&P. Co. to Mr. Malone for his use in preparing a set of By-Laws for the Holtwood Power Company. The other matters under this paragraph will come from Simpson, Thacher & Bartlett through you.

[24867] (page 3)

14. The new Board of Directors will consist of the following:

## Officers of the Company

Chairman of the Board	J. E. Aldred	40 Wall Street, New York
President	Chas. E. F. Clarke	40 Wall Street, New York
Vice President	J. A. Walls	Lewisburg, Pa.
Treasurer	Jas. L. Rintoul	1611 Lexington Building Baltimore, Md.
Secretary and Jos. W. Gross	F. J. Allen	40 Wall Street, New York
M. E. Bushong		1600 Walnut Street, Philadelphia, Pa.
		636 Woolworth Building, Lancaster, Pa.

This is in accordance with your verbal direction to me on Thursday, June 26th.

15. Mr. Malone and Mr. Zimmerman will go to Harrisburg and see the proper parties there in order to provide for an expeditious handling of certain legal matters there. There will, in all probability, be no necessity for a conference with Judge Stewart because Mr. Zimmerman will handle the work before the Public Service Commission and in the other offices in Harrisburg in Mr. Malone's absence.

Very truly yours,

(s) Marvin E. Bushong.

MEB\*W  
Encls.



**EXHIBIT NO. 456**

[24808]

May 23, 1945

**IN RE: DUTIES OF MEN EMPLOYED BY LANCASTER OFFICE**

In the Flowage Basin Account (338) prior to 1930 there were charged certain amounts paid for services to men whose names do not appear on any other records. It is known that these men were employed by Mr. Bushong, presumably in connection with the purchase of properties, bridge or road relocations, or similar matters, but in only a few cases can the exact nature of their duties be set forth in detail. This matter is referred to in some detail on page 2 of memorandum dated March 29, 1945 entitled "Lancaster Office Expense."

In the early days of the Company, and to some extent until 1933, the responsibility for the defense of law suits, the acquisition of property, and other matters not of a technical nature, was held by Mr. Charles E. F. Clarke, vice-president from 1910 to 1914 and president from 1914 to 1933. When Mr. Bushong was employed by the Company he came under the supervision of Mr. Clarke, who was located in New York; for this reason, as well as for other reasons referred to elsewhere, many of the details of the work carried on by Mr. Bushong and his assistants are not clear to us today. However, during the time of the employment of the men under discussion Mr. Bushong was engaged in acquiring properties for the Company or in other construction work. It is known that some of these people were notaries and others justices of the peace, so that the services rendered may have been in their official capacities in acknowledging or witnessing options, contracts, deeds, etc. It is also probable that many of the payments for services were to persons who helped to prepare evidence, assisted in securing favorable witnesses, and

otherwise aided in defending the numerous law suits filed against the Company, resulting frequently in the purchase of the property involved.

The condition of Mr. Bushong's health, particularly after an attack of influenza in 1918, was such that he was not able to do much strenuous field work and it was necessary for him to have somewhat more help than would otherwise have been required. It is understood that he did not feel able at times to drive long distances, and it is definitely known that he frequently requested others to operate his car. It may therefore be assumed that some of the services rendered by these part time employees were in connection with transportation of Mr. Bushong or his agents engaged in the purchase of land or other negotiations.

It has previously been pointed out that it was, in many cases, advantageous to the Company to have properties purchased by agents who were not identified with the Company or Mr. Bushong. There was no attempt to hide the fact that Mr. Bushong was an employee of the Company, and the same agent could not be used in more than a few cases before his association with the Company would be evident; therefore, except in such cases as the purchase of properties in different localities, frequent changes in personnel were required.

The services performed by some of the men whose names appear in the 338 account are not known to us. However, in other cases the services performed are known, at least in part, and it is believed that the following list of duties is typical of all of the group:

[24809] (page 2)

E. R. Griel—acted as part time chauffeur in connection with flowage basin property and Lancaster Transmission line. Part of his time was charged to Holtwood Power Company.

G. S. Burkholder—operated a garage—took care of Mr. Bushong's car and acted as part time chauffeur.



E. D. Sensenig—for many years tax assessor in Martie Twp. Knew land values in Martie and Conestoga Townships and had personal contacts with many of the property owners. Probably supplied Mr. Bushong with information as to land values, ownership, sale prices, etc. Was definitely connected with purchase of rights from Lancaster and York Furnace Street Railway Company, and assisted in securing witnesses to testify for us in law suit in reference to flooding.

E. D. Barton—acted as part time chauffeur and probably assisted in making investigations.

M. H. Fritz—purchased Heine property (Hess House), now part of Conestoga Substation, and probably was connected with other similar purchases.

T. C. Evans—was notary public. In addition to work on flowage basin also acted as right of way agent on York, Coatesville, and Westport transmission lines. One of incorporators of Holtwood Power Company.

H. J. Taylor—assisted in acquisition of Harnish property at Shenks Ferry in 1920. Later duties (1927-1928) not known.

J. H. Wickersham—was contractor and builder—probably rendered service as an appraiser.

John Funk—kept a store in Washingtonboro and acted as a boatman on river. Was familiar with islands and purchased several for Safe Harbor development.

R. M. Sheeler—was a notary public.

J. S. Graybill—purchased Bleacher, Creamer, Kendig, and Miller properties (Manor Substation), also Lant property. Later purchased a number of properties for Safe Harbor development. One of incorporators of Holtwood Power Company.

J. C. Collins—at one time a notary public. Also worked as right of way agent on York, Lancaster, Westport,

Riverside, and Perryville transmission lines. Was one of incorporators of Holtwood Power Company, Safe Harbor Water Power Corporation, and Chanceford Water Power Corporation.

- C. E. Todd—lived along river just below Holtwood, and investigated and supplied property information to Mr. Bushong. Was one of incorporators of Holtwood Power Company and also worked on York and Lancaster transmission lines. Was also a notary public.

[24810] (page 3)

- A. Z. Zercher—posted notices and did other work in connection with construction of new Conestoga Township road and vacation of old road.

S. L. Kirk—part time chauffeur, and acted as messenger.

- O. P. Bricker—attorney at law; services in connection with Washington Martin and Newton Rineer tracts.

Kersey Carrigan—purchased Hiemenz property in 1920. Also worked on York line (Violet Hill Substation), and is believed to have assisted in purchase of Geo. B. Willson properties on Conestoga Creek in 1927 and 1928. Was one of incorporators of Holtwood Power Company, Safe Harbor Water Power Corporation, and Chanceford Water Power Corporation. Also acquired some property for Safe Harbor development.

- M. J. Brinton—part time chauffeur in connection with purchase of Heine, Hiemenz, and Harnish tracts at Shenks Ferry.
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**EXHIBIT NO. 461.**

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[24819]**EXCERPT FROM THE EIGHTEENTH ANNUAL REPORT OF THE  
PENNSYLVANIA WATER & POWER CO. FOR THE YEAR 1927**

"When the steam station at Holtwood was constructed there was some doubt as to whether, under Pennsylvania law, a steam station could be owned and operated by a water power company. This matter has since been cleared up in the courts. The Pennsylvania Water & Power Company, which at that time had considered it prudent under the circumstances to organize a subsidiary, the Holtwood Power Company, has now gone through the necessary legal procedure and has purchased the assets of the Holtwood Power Company, merging that Company with itself, and assuming the \$2,750,000 principal amount of Holtwood Power Company bonds outstanding. It is expected that a saving in interest charges will be possible by retiring these bonds in the near future, and issuing therefor lower interest bearing bonds of the Pennsylvania Water & Power Company."

(P. 2)

Exhibit No. 469

4483

**EXHIBIT NO. 469.**

[24828]

R. L. T.—EXHIBIT A.

(COPY OF PETITION OF PENNSYLVANIA WATER &  
POWER COMPANY AS SENT TO PUBLIC SERVICE  
COMMISSION OF PENNSYLVANIA BY MR. MALONE  
ON APRIL 21, 1932.)

BEFORE THE PUBLIC SERVICE COMMISSION OF THE  
COMMONWEALTH OF PENNSYLVANIA.

In Re: Application of the Pennsyl-  
vania Water & Power Com-  
pany for a Certificate of Pub-  
lic Convenience evidencing  
the Commission's approval  
of the right to supply electric  
power and energy to The  
Pennsylvania Railroad Com-  
pany in Manor Township,  
Lancaster County, Pa.

Application Docket  
No. ....  
1932

TO THE PUBLIC SERVICE COMMISSION OF THE COMMON-  
WEALTH OF PENNSYLVANIA:

The Petition of the Penn-  
sylvania Water & Power Company,  
Respectfully Represents:

[24831] (page 4)

5. Your petitioner desires to supply electric power and  
energy to The Pennsylvania Railroad Company in the  
Township of Manor, Lancaster County, Pa., a township in  
which your said petitioner has not heretofore supplied elec-  
tric power and energy.



[24832] (page 5)

8. That the approval is necessary and proper for the service, accommodation and convenience of the public for the following reasons:

Your petitioner and the Consolidated Gas Electric Light and Power Company of Baltimore and the Safe Harbor Water Power Corporation, jointly as the "Electric Companies" have entered into an agreement with The Pennsylvania Railroad Company under which the Baltimore Company will sell to the Railroad Company in Maryland all of the power and energy required for the electrification of the Railroad Company's lines from the Susquehanna River to Washington, D. C. The same contract covers the supply of power and energy for the electrification of lines of the Railroad Company in the vicinity of Safe Harbor. It is expected that there will be two points of supply of such power and energy to the Railroad Company in Pennsylvania—Safe Harbor in Manor Township and Holtwood in Martic Township, Lancaster County. The bulk of power and energy thus supplied will originate in the Safe Harbor hydro plant, but some of it will be generated at the Holtwood hydro and steam plants and at times of low river flow the [24833] (page 6) supply of hydro energy will be supplemented by steam energy purchased from the Baltimore steam plants or from other sources. It is intended that the sale in Martic Township be made by your petitioner. It is desirable that the sale in Manor Township be made by either your petitioner or the Safe Harbor Water Power Corporation or by both, depending upon the actual conditions existing at the time, such as amount and division of load, economic source of supply, transmission facilities available, etc. Therefore your petitioner is asking for approval of the right to supply power and energy to The Pennsylvania Railroad Company in Manor Township and the Safe Harbor Water Power Corporation in a separate petition is also asking for approval of the same right.

## EXHIBIT NO. 470.

[24841]

R. L. T.—EXHIBIT B.

March 3, 1937

Memorandum to Mr. H. A. Wagner  
Mr. J. A. Walls

ARRANGEMENTS AMONG THE ALDRED COMPANIES WITH  
RESPECT TO PENNSYLVANIA RAILROAD ELECTRIFICATION  
EXTENSION

It has always been recognized that power delivered to the Pennsylvania Railroad in the state of Pennsylvania must be sold by a Pennsylvania corporation—i.e., one of the hydro companies. In 1931 a so-called "Working Agreement" was drafted and actually signed by Baltimore Company (dated November 25, 1931). It was then held in abeyance for a long time and finally dropped as unnecessary. (See Operating Committee's memorandum of December 12, 1934). As drafted in 1931, the proposed working agreement provided in Paragraph 7 that "all power and energy delivered to the Railroad Company in Pennsylvania will be sold to the Railroad Company by Holtwood Company."

It was later realized that on account of increasing gross receipts tax rates, a court decision upholding double or repeated gross receipts taxation in case of the sale and re-sale of power in Pennsylvania, and other reasons, it might some time prove to be desirable to have the Safe Harbor Company sell some of the power directly to the Pennsylvania Railroad. Hence in the orders obtained from the Public Service Commission of Pennsylvania dated January 10, 1933, issued over the protest of Pennsylvania Power & Light Company and upheld by the Superior Court of Pennsylvania, complete flexibility was secured in that permission was obtained for Safe Harbor Company to sell power directly to the Pennsylvania Railroad and for Holtwood Com-



pany to sell power to the Pennsylvania Railroad in Manor Township, in which the Conestoga Substation is located. (Holtwood Company of course already had the right to sell to the Railroad at Holtwood).

[24842] (page 2)

It is now necessary to decide how the sale will be handled.

As it would be too complicated to have Holtwood Company and Safe Harbor Company each sell power to the Pennsylvania Railroad, the two alternatives appear to be as follows:

PLAN 1—SALE BY HOLTWOOD COMPANY: Under this plan power and energy delivered to the Pennsylvania Railroad in Pennsylvania would be considered as sold to the Pennsylvania Railroad by Holtwood Company, and the revenue received therefor would be credited to Baltimore Company on the Holtwood-Baltimore bill under Paragraph (e) of Article III of the Supplemental Agreement, in exactly the same manner as sales to Lancaster, York and Coatesville. This is the plan which was contemplated at the time the so-called Working Agreement was drafted in 1931.

PLAN 2—SALE BY SAFE HARBOR COMPANY: Under this plan power and energy delivered to the Pennsylvania Railroad in Pennsylvania would be sold to the Pennsylvania Railroad by Safe Harbor Company. Baltimore Company and Holtwood Company would purchase the *balance* of the Safe Harbor output in the proportion of two-thirds and one-third respectively. In determining the payments to be made by Baltimore Company and Holtwood Company to Safe Harbor Company, the revenue received from the Pennsylvania Railroad for power and energy delivered in Pennsylvania would be deducted from the total Safe Harbor bill as computed under the three party contract as it

now stands, and Baltimore Company and Holtwood Company would pay to Safe Harbor Company the balance, in the proportion of two-thirds and one-third respectively.

#### COMPARISON OF THE TWO PLANS

We believe that Plan 1, sale by Holtwood Company, does not require any modification or supplementing of any contract unless and until Holtwood Company's one-third share of Safe Harbor output has to be increased in order to cover the sales to which Holtwood Company is committed. Under our method of accounting for energy, such increase will not be necessary, at least for many years, since the only requirement is that the annual energy supply available to Holtwood Company (Holtwood hydro, plus Holtwood steam, plus one-third of Safe Harbor hydro, plus energy purchased from Baltimore Company, Pennsylvania Power & Light Company, Philadelphia Electric Company and Metropolitan Edison Company) must be greater than the annual energy sold by Holtwood Company to the Pennsylvania customers, plus the annual energy delivered to Pennsylvania Railroad in [24843] (page 3) Pennsylvania, plus at least the greater part of energy delivered to Pennsylvania Railroad in Maryland (Perryville and Conowingo) over the Safe Harbor-Perryville line. The reason for including the latter item is that Holtwood Company's lawyers approved the ownership and operation of this line by Holtwood Company itself, without further authorization, only on the assumption that the line would be used to carry *Holtwood Company's* energy. An estimate for 1939 shows that even with a repetition of the minimum flow year of 1931, Holtwood Company would have an ample supply of energy on an annual basis.

We believe that Plan 2, sale by Safe Harbor Company, would require modification or supplementing of the three party Safe Harbor contract, for which prior filing with the Federal Power Commission and the Public Service Com-



mission of Pennsylvania is necessary, and would also cause complications in Safe Harbor billing. Furthermore, Safe Harbor Company at present has no arrangement whatever for purchasing steam generated energy which must be supplied to the Pennsylvania Railroad in low flow, and some sort of contractual arrangement covering this would have to be made and filed with the Federal Power Commission and the Pennsylvania Public Service Commission.

In addition to the making and filing of contractual changes, we believe that under Plan 2, it would be necessary to do a great deal of explaining to statistical companies, insurance companies, investors, the Securities and Exchange Commission, etc., because the statement has been made so frequently that Baltimore Company and Holtwood Company are purchasing or are "entitled to" the entire output of the initial Safe Harbor project.

The only advantage of Plan 2, sale by Safe Harbor Company, is a saving in Pennsylvania gross receipts tax, and this is not believed to be large enough to justify the contractual changes and complications. The tax on receipts from the Railroad Company is the same under both [24844] (page 4) plans, being paid by Holtwood Company under Plan 1 and by Safe Harbor Company under Plan 2. However the tax paid by Safe Harbor Company on receipts from Holtwood Company is less under Plan 2. Under that plan Safe Harbor Company's receipts from the Railroad Company would be deducted from the total gross revenue computed under the contract, and the *balance* would be divided between Baltimore Company and Holtwood Company in the proportion of two-thirds and one-third respectively. Hence Safe Harbor Company's receipts from Holtwood Company would be less under Plan 2 by one-third of the Pennsylvania portion of the total Railroad bill, and the gross receipts tax would be less by a corresponding amount. This amount cannot now be determined because neither the rate of taxation nor the allocation of the Railroad bill is

known. The twenty mill "emergency" rate (i.e., 2%) in effect in 1936 expired at the end of the year and, pending action by the 1937 Legislature, the rate is now the old one of eight mills. If the twenty mill rate is renewed and continued by the Legislature (as now seems likely for at least a two year period, since Governor Earle has made such a recommendation) the saving in tax under Plan 2 would be of the order of \$13,000 in 1939. At the eight mill tax rate, the saving would be only about \$5,300 in 1939. (These figures are based on revenue from the Pennsylvania Railroad of \$2,000,000 for power and energy delivered in Pennsylvania).

It is an interesting fact that a similar saving in gross receipts tax could be effected by having Safe Harbor Company make the sales to other customers in Pennsylvania, as for example Pennsylvania Power & Light Company. Safe Harbor Company was made a party to all recent contracts with Pennsylvania customers partly to make that possible. Furthermore, in the case of Lancaster at least, such a set-up would be about as logical as in the case of the Railroad sale, because a considerable part of the energy going to Lancaster originates in the Safe Harbor power house and is stepped up by transformers owned by Safe [24845] (page 5) Harbor Company. Nevertheless the tax saving (equal in amount to the gross receipts tax on one-third of the revenue received from the Pennsylvania customers) has never been considered sufficient to justify contractual changes and complications resulting from direct sale by Safe Harbor Company.

#### **RECOMMENDATIONS:**

We recommend that Plan 1, sale by Holtwood Company, be followed under present conditions. However nothing should be done that will prevent changing to Plan 2 or some other equitable arrangement later if it should prove desirable. For example, if, as the result of action by



regulatory authorities or otherwise, the contractual set-up should be changed, it would be necessary to reconsider the method of allocating revenue received from the Pennsylvania Railroad, as well as other items covered by the contracts, in order to reach an equitable arrangement.

It is necessary of course to divide the total revenue received from Pennsylvania Railroad into two parts—Baltimore Company's revenue and Holtwood Company's revenue. It should be noted that the method of making this allocation will directly affect the *gross* revenue reported by Baltimore Company, but it will affect Holtwood Company's gross revenue only to the extent of changes in Holtwood Company's taxes. It will not have any effect on Holtwood Company's net revenue, and it will affect Baltimore Company's *net* revenue only to the extent that it changes the total combined taxes of the two companies. Under present tax laws only the Pennsylvania gross receipts tax and the Pennsylvania income tax paid by Holtwood Company are affected.

We recommend that under present conditions the *total* revenue (including charges for special facilities) be divided between Baltimore Company and Holtwood Company in proportion to the Kwh. delivered to the Pennsylvania Railroad in Maryland (including Benning Station in the District of Columbia) and Pennsylvania respectively. Under this method the average rates received for energy sold to the Pennsylvania Railroad [24846] (page 6) by the two companies will be the same. The rate received by Baltimore Company will be less than the present average rate, and the gross revenue for a given number of Kwh. will be less than it is now. This is shown by the following tabulation:

	Million Kwh.	\$	Mills per Kwh.
1. Actual 1936 P. R. R. bill	114.8	1,192,857	10.39
2. 1939 bill without additional electrification (load—120% of 1936)	138.0*	1,350,600	9.8
3. Baltimore Company's portion of total 1939 bill with additional electrification under our proposal (total bill allocated in proportion to Kwh.)	161. •	1,188,000	7.38
4. Holtwood Company's portion of total 1939 bill under our proposal (total bill allocated in proportion to Kwh.)	272.	2,006,000	7.38
5. Total 1939 bill with additional electrification	433.	3,194,000	7.38

- \* Item 3 is larger than Item 2 because power will be delivered to the Columbia & Port Deposit Branch at Conowingo in Maryland, and because traffic on the Perryville-Baltimore section will be increased by electric operation of freight between the west and Baltimore by way of Perryville.

## OPERATING COMMITTEE:

(signed) F. E. RICKETTS

F. E. Ricketts

(signed) R. L. THOMAS

R. L. Thomas

FER

/MS

RLT



**ENERGY PURCHASED BY BALTIMORE AND HOLTWOOD COMPANIES FROM  
SAFE HARBOR COMPANY AND ENERGY PURCHASED BY BALTIMORE COMPANY  
FROM HOLTWOOD COMPANY**

	1944	1945	1946	1947	1948	1949
1 S. H. 230 Kv. Sendout	281,610,000	513,520,000	300,340,000			
2 S. H. 230 Kv. Received	201,075,000	53,034,000	157,961,000			
3 S. H. Net 230 Kv. Sendout (1-2)	80,535,000	460,486,000	142,379,000			
4 S. H. 69 Kv. Sendout	339,868,000	330,812,000	331,740,000			
5 S. H. 69 Kv. Received	1,962,000	4,948,000	3,672,000			
6 S. H. 69 Kv. Net Sendout (4-5)	337,906,000	325,864,000	328,068,000			
7 S. H. 132 Kv. Sendout	355,036,000	452,069,000	407,746,000			
8 S. H. 132 Kv. Received	1,335,000	882,000	1,225,000			
9 S. H. Net 132 Kv. Sendout (7-8)	353,701,000	451,187,000	406,521,000			
10 S. H. Net Metered Sendout (3+6+9)	772,142,000	1,237,537,000	876,968,000			
11 Baltimore Total 230 Kv. Received	224,038,000	384,974,000	237,211,000			
12 Baltimore Total 230 Kv. Sendout	206,611,000	56,378,000	150,303,000			
13 Washington Total 230 Kv. Received	85,630,000	133,151,000	92,778,000			
14 Washington Total 230 Kv. Sendout	35,265,000	15,345,000	50,280,000			
15 Net Delivered to Baltimore Company at Perryville	140,489,000	208,648,000	121,628,000			
16 Net Delivered to Highlandtown and Pratt Street	321,206,000	471,695,000	375,008,000			
17 Total Purchased by Holtwood Company from Baltimore Company	-	-	-			
18 Metered 230 Kv. Line Loss (1+12+14)-(2+11+13)	12,743,000	14,084,000	12,973,000			
19 Actual Percent 230 Kv. Line Loss 18/(1+12+14)						
20 Energy Purchased by Baltimore Company from Safe Harbor Company 2/3 (Item 10) x 100.0-Item 19	502,669,000	805,252,000	570,025,000			
21 Energy Purchased by Holtwood Company from Safe Harbor Company (1/3 (Item 10))	257,381,000	412,514,000	292,322,000			
22 Energy Purchased by Baltimore Company from Holtwood Company (11+13+15+16+17)-(12+14+20)	26,818,000	321,493,000	56,017,000			

June 9, 1947

Mr. George W. Spaulding  
Member of Operating Committee  
Pennsylvania Water & Power Company  
Lexington Building  
Baltimore-3, Maryland.

Dear Mr. Spaulding:

We have given consideration to your letter of May 27 and the accompanying draft of a supplemental agreement with the Philadelphia Electric Company for the Coatesville area.

In Mr. Wm. Schmidt, Jr.'s letter to Mr. J. A. Walls, dated January 24, 1947, he stated that this Company would approve a renewal agreement with the Philadelphia Electric Company for one year from March 31, 1948 with certain modifications of the terms in the present agreement. We see no reason for departing from this position and will therefore be unwilling to approve the draft of the supplemental agreement.

When the power contract with the Metropolitan Edison Company was renewed in November 1945, you agreed with me that the reason for making Safe Harbor Water Power Corporation a party to the contracts with your Pennsylvania customers was the purpose of putting the Companies in a position to avoid the payment of double gross receipts taxes, but the Companies had never found it necessary to take any action with respect to this tax question, and it was therefore unnecessary to continue Safe Harbor as a party to the contracts. Accordingly, the agreement dated November 15, 1945 is between Holtwood Company only and Metropolitan Edison Company.

When any renewal agreements are made with Philadelphia Electric Company or Pennsylvania Power and Light

Company we will insist that Safe Harbor Water Power Corporation shall not be a party to them.

As fully explained in Mr. R. L. Thomas' testimony in your pending rate case before the Federal Power Commission, this Company's entitlement to two-thirds of the output of the Safe Harbor Plant under the 1931 Power Contract has not in any way been impaired by reason of Safe Harbor Water Power Corporation becoming a nominal party to the contracts with Pennsylvania Power and Light Company and Philadelphia Electric Company.

Yours very truly,

(Signed) R. T. GREER

R. T. Greer

Member of Operating Committee



## EXHIBIT NO. 479.

[24873]

June 10, 1947

Mr. N. B. Higgins, President,  
Safe Harbor Water Power Corporation,  
Lexington Building,  
Baltimore-1, Maryland.

Dear Mr. Higgins:

Prior to January 1, 1947, each monthly Management Report of the Safe Harbor Water Power Corporation has shown two-thirds of the kilowatt hour output of the Safe Harbor Plant as sold to this Company and one-third to Pennsylvania Water & Power Company. On June 3, 1947, we received Page 6 of the January and February Management Reports with a notation: "Please substitute the following *January* and *February* pages in your copy of the management report." Upon examining these pages, we find that the form of the page has been changed by adding under the Operating Revenue figures footnotes reading:

- "(a)—Includes compensation in part for services supplied to P. R. R.
- (b)—Includes compensation for services supplied Pennsylvania customers jointly with P. W. & P. Co.
- (c)—Energy supplied P. W. & P. Co., P. P. & L. Co., P. E. Co., and P. R. R."

Furthermore, instead of showing two-thirds of the kilowatt hour output as sold to this Company and one-third sold to Pennsylvania Water & Power Company, other figures have been substituted.

We also find that these changes in the form and in the kilowatt hours sold have been made in the March and April Management Reports.

These changes have obviously been made at the instance of the Pennsylvania Water and Power Company in an attempt to support the contentions being made by that Company in its rate case now pending before the Federal Power Commission. As it should have been apparent that these changes were intended to be detrimental to our interests we are at a loss to understand why they were made.

We pointed out to the Federal Power Commission that the Pennsylvania Water & Power Company's contentions were not in accord with the facts in a statement filed with the Commission on December 26, 1946, entitled: "Statement of the Position of Consolidated Gas Electric Light and Power Company of Baltimore Regarding Sale of Safe Harbor Output." A copy of this statement was given counsel for Safe Harbor Water Power Corporation at the time it was filed and you have doubtless seen it, but we are enclosing a copy.

As the owner of two-thirds of the capital stock of Safe Harbor Water Power Corporation, we request that the erroneous statements in the Management Reports above mentioned be deleted and that proper statements be made in accordance with the uniform practice up to 1947. Page 6 of the January and February reports and the March and April reports are returned herewith for correction.

Yours very truly,

(Signed) WM. SCHMIDT, JR.  
President.



**EXHIBIT NO. 483.**

[24925]

**STATEMENT BY PENNSYLVANIA WATER & POWER COMPANY AND SAFE HARBOR WATER POWER CORPORATION GIVING HISTORICAL BACKGROUND FOR THEIR EXISTING POWER CONTRACTS WITH CONSOLIDATED GAS ELECTRIC LIGHT AND POWER COMPANY OF BALTIMORE**

February 24, 1938

[24932] (page 6)

Safe Harbor Company sells one-third of its output to Holtwood Company at Safe Harbor in Pennsylvania and the balance to Baltimore Company at Baltimore and Takoma Park in Maryland.

[24934] (page 8)

Construction was started in October, 1905, and proceeded well until the fall of 1907, when the Company ran into financial difficulties in part connected with the failure of the Knickerbocker Trust Company, and stopped all work except that the tailrace cut was completed in the summer of 1908.

Mr. Aldred became Receiver on July 17, 1909. The Pennsylvania Water & Power Company was formed on January 13, 1910. His first problem [24935] (page 9) was to obtain the money with which to complete the initial project. Naturally it was difficult to get new money for a bankrupt venture. Also at that time construction projects and utilities were not looked upon favorably in the United States market. It was necessary for Mr. Aldred to obtain the bulk of the new capital in England and Canada.

In his reorganization Mr. Aldred endeavored to carry out the intention he originally stated to the bondholders' committee of squeezing the "water" out of the project capital. Whereas the balance sheet of the McCall Company showed a combined value of \$18,186,482.29 for property, plant and equipment, and securities of other companies, the opening entry on the new company's books showed a value of \$11,797,450.97 for property, plant and equipment, and securities of other companies. This was a reduction of \$6,389,031.32, or 35%.

• • • •

[24939] (page 13)

• • • •

The development had been started without any contracts for disposal of the output. There were vague plans for selling power in Baltimore, Lancaster, Reading, Harrisburg, Wilmington, etc., and surveys for transmission lines to several points were actually made. However when the financial crisis of 1907 came the company had contracts for the sale only of less than one-third of the output of the proposed [24940] (page 14) initial project.

One of Mr. Aldred's problems in taking over the project was to find a market for the power. After extended negotiations, in August 1910 he obtained a ten year contract with the Baltimore Company. He later became interested in, and successively the President and the Chairman of the Board, of the Baltimore Company. In February, 1911 he closed a fifteen year contract with the United Railways & Electric Company of Baltimore. In these negotiations Mr. Aldred was handicapped by the fact that the reliability of hydroelectric power supply over high tension transmission lines had not yet been established and proper methods of coordinating hydro and steam resources had not been worked out.

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**Exhibit No. 485**

**4499**

**EXHIBIT NO. 485.**

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**[25027]**

**PENNSYLVANIA WATER AND POWER CO.**

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**TWENTY SECOND ANNUAL REPORT**

**AND**

**YEAR BOOK—1931**

[25047]

## Prospects

It may be remarked that your Company by the above arrangements, twenty-one years after its initial delivery of power to Baltimore from its Holtwood generating plant, is now entering upon a new stage of its development, one that has been carefully considered and planned for over a long period, which should result in very effective utilization of your Company's power resources and give an assurance of even greater stability than heretofore to your Company's earnings. The new contractual arrangement with the Consolidated Company covers a period of forty-eight years and constitutes virtually a guarantee of earnings on your Company's capital stock, since all the payments which the Consolidated Company is obligated to make to your Company are an operating expense of that company and thus come ahead of the dividends on its own preferred and common stock. \* \* \*



**EXHIBIT NO. 489.**

[25171] (page 27)

**NOTES****CONSOLIDATED GAS ELECTRIC LIGHT AND POWER COMPANY  
ANNUAL REPORT 1941****(Excerpt)****To CONSOLIDATED STATEMENT OF OPERATIONS AND BALANCE  
SHEET**

*Note A*—Under contracts with Safe Harbor Water Power Corporation and Pennsylvania Water & Power Company to continue in force until April 22, 1980, whereby the Company purchases the entire electrical energy output of the plants now operated by those companies except such energy as is sold by those companies to other customers, the Company pays annual charges for the purchase of electrical power from those companies independent of the volume of energy received. The proceeds of all sales of power by those companies to other customers are deducted in determining the payments the Company is required to make. Pursuant to the Company's practice established in 1931, Operating Expenses have been adjusted through the Balance Sheet account "Hydro Equalization" to avoid variations in the costs of power from period to period due to variations in the usable flow of the Susquehanna River above or below averages computed from records for past periods. Beginning as of January 1, 1940, the Company amended its hydro equalization practice so that the debit in "Hydro Equalization" account as of December 31, 1939 and the debit or credit for each year thereafter resulting from below or above average usable river flow will be amortized to Operating Expenses over the immediately succeeding ten-year period.

Through such adjustments \$1,107,166.23 in 1941, and \$198,535.20 in 1940 were deducted from Operating Expenses and debited to "Hydro Equalization." The net of the adjustments of Operating Expenses which have been debited or credited to "Hydro Equalization" has been from 1931 to 1941, inclusive, a net debit, i.e., a net deferment of Operating Expenses, of \$2,562,976.43. An appropriation from Surplus in the amount of \$500,000 was made in 1935 to reduce the then accumulated debit balance in "Hydro Equalization" account.



**EXHIBIT NO. 493.**  

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[25180] (page 10)

**SAFE HARBOR WATER POWER CORPORATION ANNUAL REPORT  
1933**  
• • •

It was considered desirable to put your Company in position to make delivery [25181] (page 11) of power directly to Pennsylvania Power & Light Company and to Philadelphia Electric Company with the consent of Consolidated Gas Electric Light and Power Company of Baltimore and Pennsylvania Water & Power Company, without relieving the latter companies of their commitments above referred to. Therefore, during the year your Company as one of the parties, together with Pennsylvania Water & Power Company, entered into two power contracts; one with Pennsylvania Power & Light Company, effective May 1, 1933, to run until October 31, 1940, and the other with Philadelphia Electric Company, effective as of April 1, 1934, to continue in force until March 31, 1939.

**EXHIBIT NO. 494.**

[25183] (page 9)

**PENNSYLVANIA WATER & POWER COMPANY****ANNUAL REPORT—1946****(Excerpt)**

The development and duration of your Company's several power agreements appear in diagrammatic form on page 10. The electric services available from your Company's power development and as supplemented by electric services purchased from others are disposed of under five firm power contracts with the following customers: (1) Consolidated Gas Electric Light and Power Company of Baltimore; (2) Metropolitan Edison Company for system-wide power supply, including York; (3) Pennsylvania Power & Light Company for the Lancaster power supply; (4) Philadelphia Electric Company for the Coatesville power supply; and (5) The Pennsylvania Railroad Company for its electrified lines within the region. The services supplied to these several customers are supplied jointly by your Company and the Safe Harbor Water Power Corporation. Your Company also has certain interchange agreements providing for the interchange of electric services with others. Any savings from such interchange transactions, as and when operating economies can be effected, are not retained by your Company, but accrue to the benefit of Consolidated Gas Electric Light and Power Company of Baltimore under the terms of the power contract with that company.



**EXHIBIT NO. 498.**

[25200] (page 10)

**CONSOLIDATED GAS ELECTRIC LIGHT AND  
POWER COMPANY OF BALTIMORE****REGISTRATION STATEMENT**

(Excerpts)

FORM A-2 1933

The Company, under contracts with Safe Harbor Water Power Corporation and Pennsylvania Water & Power Company (mentioned in subdivisions 1 and 2 of Item 41) purchases the entire electrical energy output of the Safe Harbor Water Power Corporation's hydroelectric development on the Susquehanna River and the Holtwood hydroelectric and steam-electric plants of Pennsylvania Water & Power Company, except such electricity as may be required by the latter two companies in performance of other contracts or any legal obligation to serve, e. g., such as may be sold to Pennsylvania customers. The Safe Harbor and Holtwood plants are located about eight miles apart on the Susquehanna River, both within a radius of about forty-five miles of Baltimore. The present installed capacity of the Safe Harbor plant is 255,000 horsepower and the plant has been designed so that its capacity may be expanded. Additions to this plant now under construction and expected to be placed into operation about October 1, 1940 will increase the capacity by 42,500 horsepower. The plants of Pennsylvania Water & Power Company at Holtwood have a present installed capacity of 180,000 horsepower (150,000 hydroelectric and 30,000 steam-electric).

[25201] (page 81)

*This registration statement comprises:*

(1) *The registration statement proper, containing pages numbered 1 to 85 consecutive, and insert pages numbered 42A, 42B, 84A and 84B.*

(2) *The following financial statements and schedules:*

Certificate dated July 22, 1940 of Messrs. Sharp, Milne & Co., Accountants and Auditors.

Balance Sheet of the Company as at May 31, 1940, Statements of Operations and of Surplus for the Five Months Ended May 31, 1940 and the Years Ended December 31, 1939, 1938 and 1937, and supporting Schedules III, V, VI, VII, IX, XI, XII, XIII, XVI, XVII, and XVIII.

(3) *The following exhibits:*

A-1 to A-65

B-1 to B-17

C-1 to C-2

F-1 to F-3

G

H

I-1 to I-94

(4) *The prospectus, consisting of 60 pages.*

*In addition to the registration statement proper, the financial statements and schedules, the exhibits and the prospectus, this registration statement includes the statement of eligibility and qualification of each person designated to act as trustee under the indenture to be qualified.*

**UNDERTAKING TO FILE PERIODIC REPORTS**

*Pursuant to Section 15 (d) of the Securities Exchange Act of 1934, the undersigned registrant hereby undertakes to file with the Securities and Exchange Commission such supplementary and periodic information, documents, and reports as may be prescribed by any rule or regulation of the Commission heretofore or hereafter duly adopted pursuant to authority conferred in said Section 15 (d); provided, however, that this undertaking shall become operative only upon the conditions specified in said Section 15 (d), and provided, further, that the duty to file pursuant to this undertaking shall be automatically suspended upon the conditions and for the periods specified in clauses (1), (2), and (3) of said Section 15 (d).*

**SIGNATURES**

(a) *Of the Issuer.*



[25202] (page 82)

*In pursuance of the requirements of the Securities Act of 1933, the registrant Consolidated Gas Electric Light and Power Company of Baltimore, a corporation organized and existing under the laws of Maryland, has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, and its seal to be hereunto affixed and attested, all in the city of Baltimore and State of Maryland on the 24th day of July, 1940.*

CONSOLIDATED GAS ELECTRIC LIGHT AND POWER  
COMPANY OF BALTIMORE

By (Signed) HERBERT A. WAGNER President  
Herbert A. Wagner (Title)

(SEAL)

Attest (Signed) HERMAN L. GRUEHN Secretary  
Herman L. Gruehn (Title)

*(b) Of the Principal Executive Officer or Officers, the Principal Financial Officer and the Comptroller or Principal Accounting Officer:*

*In pursuance of the Securities Act of 1933, the undersigned have signed the within registration statement on the respective dates set beside their names.*

*(i) Principal executive officer or officers:*

(Signed)

HERBERT A. WAGNER	President	July 24, 1940
Herbert A. Wagner	(Title)	(Date)

(Signed)

CHAS. M. COHN	Executive Vice-President	July 24, 1940
Chas. M. Cohn	(Title)	(Date)

*(ii) Principal financial officers:*

(Signed)

WM. SCHMIDT, JR.	Vice-President	July 24, 1940
Wm. Schmidt, Jr.	(Title)	(Date)

(iii) *Comptroller or principal accounting officer:*

(Signed)

Wm. SCHMIDT, JR.

Vice-President

July 24, 1940

Wm. Schmidt, Jr.

(Title)

(Date)

[25203] (page 83)

(c) *Of the Directors:*

*In pursuance of the Securities Act of 1933, the undersigned have signed the within registration statement on the respective dates set beside their names.*

(Signed) HERBERT A. WAGNER

July 24, 1940

Herbert A. Wagner

(Date)

(Signed) CHARLES M. COHN

July 24, 1940

Charles M. Cohn

(Date)

(Signed) Wm. SCHMIDT, JR.

July 24, 1940

Wm. Schmidt, Jr.

(Date)

(Signed) RALPH L. THOMAS

July 24, 1940

Ralph L. Thomas

(Date)

(Signed) F. W. WOOD

July 24, 1940

F. W. Wood

(Date)

(Signed) WILLIAM J. CASEY

July 24, 1940

William J. Casey

(Date)

(Signed) JOHN K. SHAW

July 24, 1940

John K. Shaw

(Date)

(Signed) S. BALDWIN, JR.

July 24, 1940

S. Baldwin, Jr.

(Date)

(Signed) JOHN L. WHITEHURST

July 24, 1940

John L. Whitehurst

(Date)

(Signed) JOHN M. NELSON, JR.

July 24, 1940

John M. Nelson, Jr.

(Date)

(Signed) W. BLADEN LOWNDES

July 24, 1940

W. Bladen Lowndes

(Date)

(Signed) CHAS. S. JACKSON

July 24, 1940

Chas. S. Jackson

(Date)



(Signed) R. HOWARD BLAND  
R. Howard Bland

July 24, 1940  
(Date)

.....

July , 1940  
(Date)

.....

July , 1940  
(Date)

.....

July , 1940  
(Date)

.....

July , 1940  
(Date)

(d) *Of the Duly Authorized Representative in the United States:*

*In pursuance of the Securities Act of 1933, the undersigned has signed the within registration statement on the day of 1940.*

(Not Applicable)

[25204] (page 98)

CONSOLIDATED GAS ELECTRIC LIGHT AND POWER COMPANY  
OF BALTIMORE

FORM A-2 1933

NOTES APPLICABLE TO STATEMENT OF OPERATIONS

Note II: Under contracts with Safe Harbor Water Power Corporation and Pennsylvania Water & Power Company (mentioned in subdivisions 1 and 2 of Item 41), whereby the Company purchases the entire electrical energy output of the plants now operated by those companies except such energy as is sold by those companies to Pennsylvania customers, the Company pays annual charges for the purchase of electrical power from those companies independent of the volume of energy received. The proceeds of all sales of power by those companies to Pennsylvania customers are deducted in determining the payments the Company is required to make.

**EXHIBIT NO. 499.**

[25206] (page 24)

**SAFE HARBOR WATER POWER CORPORATION****REGISTRATION STATEMENT**

(Excerpts)

FORM S-1 1946

**CERTAIN CONTRACTS**

The electric services available from the Corporation's hydroelectric project are disposed of under four contracts, all of which consist of an original and one or more supplements and are hereinafter more fully referred to. These contracts are:

- (1) Three-party Contract between the Corporation, Consolidated Company and Holtwood Company,
- (2) Lancaster Power Supply Contract,
- (3) Coatesville Power Supply Contract, and
- (4) Pennsylvania Railroad Power Contract,

[25207] (page 25) the last three of which were entered into by the Corporation with the consent or approval of Holtwood Company and Consolidated Company.

The following statements are brief summaries for the most part in general terms of certain of the principal provisions of the aforementioned contracts and are in all respects subject to and are qualified in their entirety by express reference thereto.

- (1) **Three-Party Contract Between the Corporation, Consolidated Company and Holtwood Company**

This contract consists of the original contract dated June 1, 1931 and two supplemental contracts hereinafter more fully designated.

Under the terms of these contracts Consolidated Company and Holtwood Company are presently entitled to two-thirds and one-third, respectively, of all the capacity, energy and other electric services avail-



able from the Corporation's hydroelectric development, other than any which may be required for the performance of any duty or obligation to serve imposed on the Corporation by its charter or otherwise by law and subject to the Corporation's responsibilities under its other contracts made with the consent or approval of Holtwood Company and Consolidated Company.

Consolidated Company and Holtwood Company make annual payments therefor in proportion to their entitlements as stated above (which payments are subject to increase or decrease by regulatory authorities) and which payments since 1937 have been the amounts required to yield to the Corporation a net income of 7% on its accumulated actual investment in its hydroelectric development (as defined in the contract) after "all reasonable operating expenses", and without regard to the amount of electric services actually furnished.

The Corporation is also obligated at the request of either Consolidated Company or Holtwood Company with the consent of the other to install additional machinery or equipment, and the requesting parties shall make the necessary additional annual payments therefor.

The contract also provides for abatement of the obligations of the respective parties for failures due to specified causes beyond the control of the parties, subject to the proviso that the payments shall not be reduced to less than enough for the Corporation to pay its bond interest and sinking fund charges over and above operating expenses (including allowance for depreciation).

Holtwood Company undertakes to transmit for Consolidated Company, Consolidated Company's share of the electric services available from the Corporation and is obligated in the event of its failure so to transmit Consolidated's share of such electric services to take

and pay for at the contract rate Consolidated Company's share of such electric services as well as its own. The contract likewise provides for the guaranty of the payment of the principal of and interest on the presently outstanding 4½% Series Bonds of the Corporation which it is intended shall be retired upon the completion of the present financing and which guaranty will not apply to the New Bonds to be issued and registered hereunder. These contracts continue in force until April 22, 1980. Copies of the contract dated June 1, 1931, Supplemental Contract dated August 1, 1932 and Supplemental Contract dated November 22, 1939 are filed with the Registration Statement as an Exhibit.

## **(2) Lancaster Power Supply Contract**

This contract between the Corporation and Holtwood Company of the one part and the Pennsylvania Power & Light Company of the other part, provides for the delivery by the Corporation and Holtwood Company at Holtwood and near Safe Harbor, Pennsylvania, of the electric service requirements (as defined in the contract) of Pennsylvania Power & Light Company for distribution in its territory in and surrounding Lancaster, Pennsylvania, and for use in other parts of the system of Pennsylvania Power & Light Company (under conditions set forth in the contract) and the Corporation and Holtwood Company are to receive monthly payments from Pennsylvania Power & Light Company in respect to the several kinds of services rendered at specified rates. (See last paragraph under this main heading). This contract in addition to providing for firm power services also provides for the purchase and sale of electric services on an interchange basis. This contract by its terms continues in force until October 31, 1946 and thereafter for successive periods of two years each unless terminated by either party on eighteen months' written notice prior to the



expiration of any extension period thereto. At present this contract is effective to October 31, 1948.

Copies of the agreements constituting the Lancaster Power Supply Contract dated October 9, 1912, May 1, 1933, June 11, 1934, and Letter Agreements dated April 28, 1939, August 26, 1941 and October 14, 1941 are filed with the Registration Statement as an Exhibit.

**(3) Coatesville Power Supply Contract**

This contract between the Corporation and Holtwood Company of the one part and Philadelphia Electric Company of the other part, provides that the Corporation and Holtwood [25208] (page 26) Company are to deliver at Coatesville, Pennsylvania, the electric service requirements of the Philadelphia Electric Company for distribution in Coatesville and surrounding territory for which the Corporation and Holtwood Company are to receive monthly payments from Philadelphia Electric Company at specified rates. (See last paragraph under this main heading). This contract continues in force until March 31, 1948. Under the provisions of the contract Philadelphia Electric Company has given notice to the Corporation and Holtwood Company of its desire to terminate this contract on that date unless certain changes and modifications necessitated by conditions in the area supplied can be made in said agreement.

Copies of the agreements constituting this contract dated August 1, 1933 and December 13, 1938 are filed with the Registration Statement as an Exhibit.

**(4) Pennsylvania Railroad Power Contract**

This contract between the Corporation, Consolidated Company, Potomac Electric Power Company and Holtwood Company of the one part and The Pennsylvania Railroad Company of the other part, provides that the Corporation, Holtwood Company and Con-







solidated Company as "Electric Companies", are to supply the entire electrification requirements of the Pennsylvania Railroad for passenger, freight and switching services on the main line of the Philadelphia, Baltimore and Washington Railroad from Perryville, Maryland to Washington, D. C., on the passenger and freight lines of the present Philadelphia Division between Thorndale, Pennsylvania and Harrisburg and Enola, Pennsylvania, on the Columbia and Port Deposit Railroad from Columbia, Pennsylvania to Perryville, Maryland, and yards adjacent thereto and supporting these services. The Railroad Company may also call for additional services on said lines and/or for passenger, freight, and switching services on additional lines in connection with extensions of Railroad Company's electrification and for installation of additional facilities.

To meet the requirements of these contracts special facilities consisting principally of two single phase hydroelectric generating units of 30,000 kw. each and a frequency changer unit of 25,000 kw. capacity were installed by the Corporation in its Safe Harbor Project. This contract continues in force until September 30, 1960.

Copies of the agreements constituting the Pennsylvania Railroad Power Contract dated September 2, 1931, August 15, 1934 and June 22, 1938, in composite form, are filed with the Registration Statement as an Exhibit, and a copy of the Railroad Parallel Operation Agreement between the Corporation, Consolidated Company, Holtwood Company, Philadelphia Electric Company and The Pennsylvania Railroad Company dated June 22, 1938 is filed with the Registration Statement as an Exhibit.

All of the foregoing power supply contracts are now the subject of review as to rates and services by public

regulatory bodies, as is more fully set forth under the heading "Material Litigation". For a description of the Federal Power Commission Order dated October 25, 1946 which was issued November 4, 1946 concerning the rates and charges of the Corporation, see "Material Litigation," subheading "Federal Power Commission."

The Corporation does not directly receive from the receiving Companies under the Lancaster, Coatesville and Railroad power supply contracts, any of the compensation for the joint services rendered under such contracts, but such revenues are received by its Agents, Holtwood Company (under the Lancaster and Coatesville Power Supply Contracts) and Consolidated Company (under the Pennsylvania Railroad Power Contract). All of the Corporation's revenues for services which it renders in connection with these contracts are received solely under the terms of the Three-Party Contract between the Corporation, Consolidated Company and Holtwood Company referred to in item (1) above.



## EXHIBIT NO. 500.

[25210]

## FEDERAL POWER COMMISSION

Washington

January 9, 1941

Consolidated Gas Electric Light and Power Company of  
Baltimore,  
Lexington and Liberty Streets,  
Baltimore, Maryland.

Attention: Mr. William Schmidt, Jr., Vice President.

Gentlemen:

Reference is made to the reports by your company on F. P. C. Form No. 169 and related data on F. P. C. Form No. 64 (1939).

The monthly reports on power requirements and supply, which the Commission is compiling pursuant to the request of the President, indicate that power loads are increasing rapidly in many sections of the country. It therefore becomes increasingly important to appraise more definitely the ability of each power supply system to meet increased power requirements.

In order that the available system capacity, of those systems with considerable hydro capacity, may be treated as a band with the lower limit reflecting conditions equivalent to the most adverse stream flow and the upper limit reflecting conditions equivalent to a year which would give the average annual potential output, the following supplemental information is requested:

1. Available kilowatt-hour output from system hydro plants by months under the following conditions:
  - (a) Assuming flows equivalent to the year of most adverse stream flow.

- (b) Assuming flows equivalent to a year which would give the average annual potential output.
2. Maximum portion of the peak load in kilowatts which could, on the present load shape, be carried each month by system hydro plants under conditions 1(a) and 1(b).

Data now at hand does not show, except in a few cases, the monthly variation in available system capacity of those systems whose capacity all (or nearly so) comes from fuel plants. In order to have more complete data on this subject, the following supplemental information is also requested:

[25211] (page 2)

1. Maximum continuous capacity in kilowatts available by months from system fuel plants making allowance for any outage which must be scheduled either for maintenance or other reasons. If different under conditions 1(a) and 1(b) of the preceding paragraph, give both.
2. Fuel plant capacity not normally available for service each month under conditions 1(a) or 1(b) of the preceding paragraph due to scheduled maintenance or other reasons. If the scheduling of maintenance is done in cooperation with other interconnected systems, please explain the relations.

It is desired that the supplemental data requested be furnished as soon as possible. The data submitted shall cover the pool operations of all the companies included in the current reports on Form No. 169. Your cooperation in this matter will be greatly appreciated.

Very truly yours,

(Signed) Leland Olds  
Chairman.



[25212]

February 27, 1941.

Federal Power Commission,  
Washington, D. C.

Attention of Mr. Leland Olds, Chairman.

Gentlemen:

In reply to your letter of January 9, 1941, we are submitting on the attached Tabulation I our understanding of the supplemental data requested covering the combined operations of the Holtwood, Safe Harbor, Baltimore, Bethlehem Steel and Washington Systems.

In reference to the data on hydro energy and capacity it is desired to especially call attention to the fact that it is not possible to select any one year which, as a whole, has the most adverse stream flow with respect to both available energy and capacity, as the Safe Harbor and Holtwood hydro plants do not have seasonal storage facilities. Therefore, both capacity and energy corresponding to the most adverse stream flow conditions for each month have been given in the attached Tabulation I, without regard to the year in which these conditions may have occurred. In many instances the years were different, with respect to the different months and in addition with respect to energy and capacity for the same month.

More specifically, the energy figures in Column 1 show the lowest available energy output for each calendar month, most of which are based on river flow records of different years. The kilowatts shown in Column 3 represent the difference between the maximum clock hour integrated load and the maximum kw. steam generation which would be required during each of these months based on estimated 1941 loads, present hydro facilities and the most adverse river flow with respect to capacity recorded for the respective months in the past 50 years. Floods are the controlling condition in March, April and May and low flows in the other months with normal weekly use of hydro stor-

age. The river flows used as the basis for the capacity shown in Column 3 are different in many months from those used as the basis for the energy shown in Column 1.

The figures shown in Column 4 have been derived in the same manner as those in Column 3, except that they are based on the average weekly energy, with normal weekly use of hydro storage, corresponding to the average potential monthly hydro output shown in Column 2.

It should be clearly recognized that there has never been a year when the river flow conditions were so severe as to result in the hydro capacity being reduced throughout the whole year to that shown in Column 3. The available hydro capacity for the greater part of the time is equal to or greater than that shown in Column 4 and the period of time during which the capacity approaches that shown in Column 3 is comparatively small. The "most adverse" river flows which [25213] (page 2) are the basis of the capacities in Column 3 have occurred but once in 50 years and not all in the same year. In the peak load season, November and December, the potential capacity with the present plants in nine out of ten years has been equal to or greater than that shown in Column 4 for that period of the year.

Also it is desired to point out that the figures in Column 3 have been derived on the basis used to determine the *limiting condition* for arranging maintenance schedules. The present practice, in general, is to allow capacity equivalent to the largest unit for operating spare (now 48,000 kw.) plus the small standby plant at Westminster, Maryland, and to rely upon hydro storage for additional reserve (the usable hydro storage will provide for slightly more than the loss of the largest unit on the system for a week, which in itself is believed to be a severe assumption). These monthly hydro capacity figures are *not* on the same basis as that which is used to determine requirements for capacity installation and which is reported on FPC Form 64 in connection with the annual peak. The latter figure



is determined by including use of hydro storage over a 20-day period based on the very conservative assumption of the simultaneous loss of capacity equal to that of the two largest units for the entire 20-day period.

In reference to the fuel plant capacities it will be noted that in certain months the capacity shown in Column 7, as not normally available under "most adverse stream flow" conditions, is less than the corresponding capacity shown in Column 8 for "average output" conditions. The difference is due to certain maintenance outages scheduled for normal river conditions being subject to deferment to other more favorable periods in the same year or succeeding year dependent upon the actual or immediately prospective river conditions. The capacity figures in Columns 7 and 8 also show, in addition to scheduled maintenance outage, capacity unavailable due to other causes such as allowance for certain unscheduled maintenance outages of boilers and gas-electric engines which are required at frequent periods, inability of available boilers to sustain rated output of the plant for a continuous period, and condenser water limitations. A portion of this capacity is available for carrying peak loads of short duration (i. e., one hour or less).

To further clarify the use of the attached capacity data we are submitting Tabulation II which shows for both "average" and "most adverse" river conditions the application of these figures in Schedule 16, FPC Form 64 or Schedule 3, FPC Form 169 (1941) to determine "net assured" capacity for operating purposes.

Yours very truly,

(Signed) F. E. Ricketts  
Vice-President.

Enclosures  
FMJ

TABULATION I

SUPPLEMENTAL DATA REQUESTED BY FEDERAL POWER COMMISSION IN LETTER OF JANUARY 9, 1941,  
FOR COMBINED HOLTWOOD, SAFE HARBOR, BALTIMORE, WASHINGTON AND BETHLEHEM STEEL SYSTEMS

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>
	Available Kw.-Hr. Output from System Hydro Plants by Months		Maximum Portion of Peak Load in Kw. Which Could on the Present Load Shape (1941) be carried by the System Hydro Plants		Maximum Continuous Capacity in Kw. Available from System Fuel Plants		Fuel Plant Capacity in Kw. Not Normally Available from System Fuel Plants Due to Scheduled Maintenance or Other Reasons	
<u>Months</u>	<u>Most Adverse Stream Flow</u>	<u>Average Potential Hydro Output</u>	<u>Most Adverse Stream Flow</u>	<u>Average Potential Hydro Output</u>	<u>Most Adverse Stream Flow</u>	<u>Average Potential Hydro Output</u>	<u>Most Adverse Stream Flow</u>	<u>Average Potential Hydro Output</u>
January	26,600,000	123,600,000	181,000	305,000	583,150	563,150	60,800	80,800
February	46,000,000	125,100,000	171,000	305,000	574,950	530,950	69,000	113,000
March	130,700,000	198,100,000	207,000	315,000	534,250	503,250	109,700	140,700
April	144,700,000	192,800,000	259,000	315,000	502,250	502,250	141,700	141,700
May	72,500,000	161,000,000	234,000	315,000	531,250	531,250	112,700	112,700
June	52,800,000	116,700,000	171,000	305,000	567,950	547,950	76,000	96,000
July	33,900,000	85,200,000	155,000	270,000	615,550	595,550	28,400	48,400
August	17,200,000	69,000,000	117,000	236,000	624,950	624,950	19,000	19,000
September	14,100,000	61,800,000	125,000	243,000	674,950	674,950	19,000	19,000
October	14,100,000	78,100,000	172,000	288,000	649,950	649,950	44,000	44,000
November	14,100,000	96,800,000	200,000	305,000	683,950	683,950	10,000	10,000
December	23,500,000	123,300,000	196,000	305,000	683,950	683,950	10,000	10,000

Note: The data given above are applicable only under the conditions described in the attached letter and as shown in Tabulation II.



TABULATION IICOMBINED HOLTWOOD, SAFE HARBOR, BALTIMORE, WASHINGTON AND BETHLEHEM STEEL SYSTEMS."NET ASSURED" CAPACITY FOR OPERATING PURPOSES IN KILOWATTS - METHOD OF SCHEDULE 3, FPC FORM 169 (1941)FOR YEAR 1941

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
<u>Assuming "Most Adverse Stream Flow"</u>												
1. Net available capacity from:												
a. System fuel plants	583,150	574,950	534,250	502,250	531,250	567,950	615,550	624,950	674,950	649,950	683,950	683,950
b. System hydro plants	181,000	171,000	207,000	259,000	234,000	171,000	155,000	117,000	125,000	172,000	200,000	196,000
c. Subtotal (a plus b)	764,150	745,950	741,250	761,250	765,250	738,950	770,550	741,950	799,950	821,950	883,950	879,950
2. Total Reserve Capacity Required	49,450	49,450	49,450	49,450	49,450	49,450	49,450	49,450	51,450	51,450	51,450	51,450
3. Subtotal (1c minus 2)	714,700	696,500	691,800	711,800	715,800	689,500	721,100	692,500	748,500	770,500	832,500	828,500
4. Capacity available from firm purchases	0	0	0	0	0	0	0	0	0	0	0	0
5. Firm obligations to systems other than those whose requirements are included in Schedule 1, item 5	51,000	49,000	55,000	53,000	58,000	50,000	53,000	53,000	52,000	54,000	59,000	59,000
6. Net assured system capacity (3 plus 4 minus 5)	<u>663,700</u>	<u>647,500</u>	<u>636,800</u>	<u>658,800</u>	<u>657,800</u>	<u>639,500</u>	<u>668,100</u>	<u>639,500</u>	<u>696,500</u>	<u>716,500</u>	<u>773,500</u>	<u>769,500</u>
<u>Assuming "Average Potential Hydro Output"</u>												
1. Net available capacity from:												
a. System fuel plants	563,150	530,950	503,250	502,250	531,250	547,950	595,550	624,950	674,950	649,950	683,950	683,950
b. System hydro plants	305,000	305,000	315,000	315,000	315,000	305,000	270,000	236,000	243,000	288,000	305,000	305,000
c. Subtotal (a plus b)	868,150	835,950	818,250	817,250	846,250	852,950	865,550	860,950	917,950	937,950	988,950	988,950
2. Total Reserve Capacity Required	49,450	49,450	49,450	49,450	49,450	49,450	49,450	49,450	51,450	51,450	51,450	51,450
3. Subtotal (1c minus 2)	818,700	786,500	768,800	767,800	796,800	803,500	816,100	811,500	866,500	886,500	937,500	937,500
4. Capacity available from firm purchases	0	0	0	0	0	0	0	0	0	0	0	0
5. Firm obligations to systems other than those whose requirements are included in Schedule 1, item 5	59,000	57,000	55,000	53,000	58,000	50,000	53,000	53,000	52,000	54,000	59,000	67,000
6. Net assured system capacity (3 plus 4 minus 5)	<u>759,700</u>	<u>729,500</u>	<u>713,800</u>	<u>714,800</u>	<u>738,800</u>	<u>753,500</u>	<u>763,100</u>	<u>758,500</u>	<u>814,500</u>	<u>832,500</u>	<u>878,500</u>	<u>870,500</u>

Exhibit No. 501

4523

**EXHIBIT NO. 501.**

[25216]

**CONSOLIDATED GAS ELECTRIC LIGHT AND  
POWER COMPANY OF BALTIMORE**

February 10, 1942

Mr. A. J. Kohler, Associate Engineer,  
Federal Power Commission,  
1735 Baltimore Trust Building,  
Baltimore, Maryland.

Dear Mr. Kohler:

Confirming our conversation in your office, I wish to supply the following description of the changes we wish to propose in the load and generation data supplied to the Commission.

In July of 1941 our system load records were changed from a delivered or net basis to the basis of main unit output. With the growth of system loads, larger steam units and more transmission lines, it afforded considerable advantages in system operation and simplicity of records to include transmission losses and generating station use as part of the system requirements to be provided for. Because of the magnitude of the system load, it was no longer considered practicable to record hourly load data to less than whole megawatts. Operating capacity figures are also reported to even megawatts and show capability of main generators without deductions for station use or transmission losses.

As a result of the change in our load and capacity records it has been necessary in our reports to the Commission, since July 1941, to convert all of our generating records over to the basis provided by the forms. It is felt that a better picture of the relationship of our system load and capacity can be obtained directly from the operating rec-



ords. Accordingly, we have selected the month of December 1941 for example and prepared a copy of Form No. 169 on the proposed basis.

The only change from the original report which has been made in Schedules 1 and 2 is to include the transmission losses and generating station uses.

A comparison of the capacity figures shown in Figure 3 of the proposed report with those reported on the form actually submitted is shown below:

	Proposed Form	Net Basis Used for December, 1941
1-a. Net Dependable Capacity Available from system fuel plants:		
Westport	266,000	240,000
Gould St.	71,000	67,000
Pratt St.	18,000	18,000
Westminster	1,000	1,450
Benning	175,000	171,000
Buzzard Point	120,000	115,000
Bethlehem Steel Co.	46,000	45,000
Holtwood	26,000	24,000
Total	723,000	681,450

[25217] (page 2)

1-b. Net Dependable Capacity Available from system hydro plants	265,000	253,000
2- Reserve Capacity Required		
Largest Baltimore Unit	59,000	50,000
Largest Washington Unit	50,000	48,000
Westminster (Cold Reserve)	1,000	1,450
Total	110,000	99,450

The change of 26,000 kw. in the capacity of Westport is due to 6,000 kw. station use supplied from the main bus and 20,000 kw. additional capability which was demonstrated during the sustained low flow periods of 1941. The change of 4,000 kw. in Gould St. capacity is due to 3,000 kw. station use supplied from the main bus and 1,000 kw. additional capability.

The Pratt St. capacity is the metered output of the generating unit as no facilities are provided for station use metering at this plant.

The Westminster capacity has been reduced to the nearest whole megawatt.

The capacities shown for the Buzzard and Benning stations are the capacities furnished by the Potomac Electric Power Company adjusted for station use.

The difference in the figures for Bethlehem Steel Company's capacity represents the estimated station use which was deducted in previous reports.

The difference of 2,000 kw. shown for the Holtwood Steam plant represents the combination of station use and transmission losses. This is likewise true as regards the difference of 12,000 kw. shown in the dependable capacity of the system hydro plants.

The difference in the reserve capacity required was caused by the increased capability demonstrated by No. 2 unit at Westport, the largest Baltimore steam unit, the change from net to gross capacity of the Buzzard unit, and the revised rating of the Westminster plant to the nearest whole megawatt.

From a comparison of the proposed form with the report submitted for December 1941, it may be seen that the effect of these changes has been to increase the peak load shown in Schedule 2 for December 1942 by 37,000 kw., while the net assured system capacity, Line 6, Schedule 3, has been changed by 43,000 kw. This represents a net gain to the system of only 6,000 kw. of generating capacity from the proposed revision in the basis of reporting. It should



be noted that the capacities given in the revised report are based on average winter circulating water conditions which prevail at time of the present annual peak load. For circulating water temperatures higher than those estimated for the present annual peak period the capacity of the fuel burning plants will be reduced appreciably.

[25218] (page 3)

The adoption of this proposed method will not only give a more accurate report of the system load and capacity relations, but will eliminate the necessity of obtaining hourly readings of station use and keeping duplicate records of system load, now required only for the purpose of reports to the Commission.

Very truly yours,

(Signed) R. T. Greer

R. T. Greer, Director,

Intersystem Power Utilization Bureau

RTG:JC

This report was discussed with Mr. Penniman in his office on February 11, 1942 and he approved giving this information to the Commission.

(Signed) R. T. G.

2/11/42

Exhibit No. 506

4527

**EXHIBIT NO. 506.**

[25298]

**CONSOLIDATED GAS ELECTRIC LIGHT AND  
POWER COMPANY OF BALTIMORE**

**ANNUAL REPORT TO SEC**

**Form 10-K 1941**

**NOTES APPLICABLE TO STATEMENT OF OPERATIONS**

*Note 1*

Under contracts with Safe Harbor Water Power Corporation and Pennsylvania Water & Power Company to continue in force until April 22, 1980, whereby the Company purchases the entire electrical energy output of the plants now operated by those companies except such energy as is sold by those companies to other customers, the Company pays annual charges for the purchase of electrical power from those companies independent of the volume of energy received. The proceeds of all sales of power by those companies to other customers are deducted in determining the payments the Company is required to make.



Additional Data Derived from Tables V and V-B  
and Revision of Table VI-A

Schule X

Cost of Casco and Energy Supplied by  
"Division from Baltimore's 2/3 of Safe Harbor"

1	Cost of 2/3 of SH Capacity and Energy (2 times the amount in line 20, col. 1, Table V, P. 42)	2014370	
2	Allocation of SH Hydro Costs, 74.85 % to Capacity and 25.15 % to Energy	1507756	506616
3	2/3 of SH Sources Capacity (2/3 amount in line 9, col. 3, Table V-A, P. 421)	105688 hr	
4	Energy (2 times the amount in line 2, col. 3, Table V-B, P. 421)	584,646,000 kWh	
5	Unit Cost of Services Rendered from Baltimore's 2/3 of Safe Harbor", Capacity	\$14.27/hr	
6	Energy	2867 mills/kwh	

Division of Supply by Baltimore" between  
East-End Sand Divisions from Baltimore &  
2/3 of Safe Harbor" (based on Table V. B, Ex. 421)

7	Backfeed on 220 kw lines (line 8, Table D-B, Ex. 421)	157961		157961					
8	Backfed at Hollandstown " (line 9 " " )	1676		1676					
9	Total of Backfeed	159687		159687		17.02 %			
10	"Division from Baltimore's 2/3 of Safe Harbor" (line 10, Table D-B, Ex. 421)	162677	B, Ex. 421)	162677		17.34			
11	Total Supply by Baltimore	322314		322314		34.36 %			
12	Total available supply for firm and interchange sales in Pa (line 12, Table D-B)	937950	12, Table D-B)	937950		100.0 %			
13	Total firm load requirements in Pa. (line 13, col. 6, Table D-B, Ex. 421)	746286	Ex. 421)	746286					
14	Supply from "Holland Resources" (lines 13, col. 7 and 8, Table D-B, Ex. 421)		D-B, Ex. 421)			65.64 %	489835		
15	Backfeed							17.02 %	127031
16	"Division from Baltimore's 2/3 of Safe Harbor"		bar "			17.34 %			129420

Notes "Supply by Baltimore"

2	Total available supply for firm and interchanges sales in Pa. (line 12, Table D-B)	937950	Table D-B)	937950	100.0 %		
3	Total firm load requirements in Pa. (line 13, col. 6, Table D-B, Ex 421)	746286	421)	746286			
4	Supply from "Hollywood Resources" (line 13, col. 7 and 8, Table D-B, Ex 421)		3, Ex 421)		65.64 %	489835	
5	Backfeed		"				17.02 % 127031
6	Division from Baltimore's 2/3 of Soft Harbor		"				17.34 % 129420

Adjustment of Revenue from Baltimore  
(Revision of Table IV. A)

17.	Revenue from Baltimore, as reported	\$ 1,104,952
18	Revenue from net interchange in Pa.	<u>1,127,699</u>
19	Total	\$ 2,232,651

(Note - No adjustment reported for

(Note - No adjustment made of revenue as reported from PRR in Pa.)



Table I-A (Revised)  
Dependable Capacity Available to Baltimore, and Capacity  
"Supply by Baltimore"

Schedule Y

	Hollywood Steam	Hollywood Hydro	Taft Harbor	Total Hydro	To and	Taft Harbor	Total Hydro	Total Hydro and Steam	Sum Loads	Sum Loads plus Reserve	"Hollywood Reserves" amount	% of Total Baltimore	"Supply by Baltimore"
	1	2	3	4	5	6	7	8	9	10	11	12	13
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													

Lines 1 to 9, cols. 1 to 5, are the same as the corresponding lines and columns of Table I-A, Exhibit 421

"Net dependable capacity available for load" 25784 kw 71684 kw 158332 kw 230216 kw 214 kw 158332 kw 230216 kw 256000 kw

Amount and Use of "Hollywood Reserves"

"Hollywood net dependable capacity" - steam 25784 kw  
Hydro 71684  
52844

1/3 of SH " 150312 kw = 100 %

Total Hollywood plus 1/3 of SH - "Hollywood Reserves" of "net dependable capacity" 53000 kw = 35.26 %

Capacity delivered to Baltimore at Highlandtown (1945 and 1946 experience corresponding to total hydro generation of 250,000 kw) 97312 kw = 64.74 %

Balance of "Hollywood Reserves" used in R

Demands of R. Customers on System Peak

P.P. & L. Co. 55000 kw 60500 kw  
P.E. Co. 27000 29700  
M.E. Co. (no reserve provided for this load) 21000 21000  
PRR in R. (use 47% of total PRR load) 30550 33605  
Total 133550 kw 144805 kw 144805 kw

Balance of "Hollywood Reserves" used in R 97312 kw = 64.74 %

Demands of R. Customers on System Peak

P.P. & L. Co. 55000 kw 60500 kw  
P.E. Co. 27000 29700  
M.E. Co. (no reserve provided for this load) 21000 21000  
PRR in R. (use 47% of total PRR load) 30550 33605  
Total 133550 kw 144805 kw 144805 kw

"Supply by Baltimore" by "Diversion from Baltimore's 2/3 of Taft Harbor" (20-15) 47896 kw



Table II (Revised)  
Assembly of Capacity, Energy, and Special Facility Costs for Each  
Customer and Credits to Baltimore, Comparison of Costs and Revenues

Schedule I

	Capacity Services kw	Energy Services million kw-hr.	Capacity Cost \$/1000	Energy Cost \$/1,000	Special Facility Cost \$/1,000	Total Costs (and Credits) \$/1,000	Capacity Cost \$/1,000	Energy Cost \$/1,000	Special Facility Cost \$/1,000	Total Costs (and Credits) \$/1,000	Net Costs \$/1,000	Total Revenues \$/1,000	Excess Revenues \$/1,000	Excess Revenues %
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Pennsylvania Customers and PRR in Pa.														
1 P.R. & L. Co.	67 000	308.6	1110.9	556.5	10.8	1678	556.5	10.8	1678.2	1678.2	1938.4	280.2	12.3	
2 P.E. Co.	26 000	135.6	431.1	244.5	59.2	734	244.5	59.2	734.8	734.8	948.9	214.1	9.4	
3 M.E. Co.	23 000	88.6	281.3	159.8	34.5	575	159.8	34.5	575.6	575.6	667.4	91.8	4.1	
4 PRR in Pa.	38 000	213.5	630.0	384.9	94.0	1108	384.9	94.0	1108.9	1108.9	1625.6	516.7	22.7	
4a Sub-Total	154 000	746.3	(a) 2553.3	(b) 1345.7	198.5	4097	1345.7	198.5	4097.5	4097.5	5200.3	1102.8	48.5	
Baltimore														
5a Service to Baltimore, and Credits	53 000	502.5	(c) 1021.5	(d) 652.9	772.6	2447	652.9	772.6	2447.0					
5b Supply by Baltimore, and Credits	47 500	256.5	(e) 677.9	(f) 709.2		(g) 1386	709.2		(g) 1386.9					
5c Net Service and Cost to Baltimore	55 000	246.0	343.8	(56.3)	772.6		(56.3)	772.6		1060.1	2132.6	1172.5	51.5	
6 Total (4a plus 5c)	159 500	992.3	2897.1	1289.4	971.1		1289.4	971.1		5157.6	7432.9	2275.3	100.0	

(a) Cost of Capacity for Pennsylvania Customers and PRR in Pa.

64.74 % of the cost of capacity (line 26, Table I)  
from "Holtwood Revenues"  $64.74\% \times 2,897,112 = \$1,875,590$

47,473 kw "Division from Baltimore's 2/3 of  
Safe Harbor"  $47,473 \text{ kw} \times \$14.27 = \$677,725$

Total cost, distributed to the Pennsylvania  
Customers in proportion to max. demands  $= \$2,553,315$

(c) Cost of Capacity

35.26 % of the  
from "Holtwood Revenues"

(d) Cost of Energy

502,485,000 kw-hr

(e) Credits to Bal.

(c) Cost of Capacity for Baltimore

35.26 % of the cost of capacity (line 26, Table I)  
from "Holtwood Revenues"  $35.26\% \times 2,897,112 = \$1,021,522$

(d) Cost of Energy for Baltimore

502,485,000 kw-hr (line 15, col 11, Table I.B) at 1.3 mills/kw-hr  $= \$652,919$

(e) Credits to Baltimore

from "Holtwood Revenues"  $64.74\% \times 2,897,112 = \$1,875,590$

47,473 kw "Division from Baltimore's 2/3 of  
Safe Harbor"  $47,473 \text{ kw} \times \$14.27 = \$677,725$

Total cost, distributed to the Pennsylvania  
Customers in proportion to max. demands  $= \$2,553,315$

(e) Cost of Energy for Pennsylvania Customers and PRR in Pa.

65.64 % from "Holtwood Revenues", at cost of 1.30 mills/kw-hr  $= 0.853$

7.02 % from backfeed, at assumed cost of 4.70  $= 0.800$

17.34 % by "Division from Baltimore's  
2/3 of Safe Harbor" at cost of 0.867  $= 0.150$

Weighted average unit cost applied to  
Pa. Customers from energy  $\text{mills/kw-hr} = 1.803$

from "Holtwood Revenues"

(d) Cost of Energy

502,485,000 kw-hr

(e) Credits to B.

for backfeed

for energy "Division from Baltimore's 2/3 of  
Safe Harbor"

for capacity "Division from Baltimore's 2/3 of  
Safe Harbor"

for capacity "Division from Baltimore's 2/3 of  
Safe Harbor"

for capacity "Division from Baltimore's 2/3 of  
Safe Harbor"

for capacity "Division from Baltimore's 2/3 of  
Safe Harbor"

for capacity "Division from Baltimore's 2/3 of  
Safe Harbor"

from "Holtwood Revenues"  $35.26\% \times 2,897,112 = \$1,021,522$

(d) Cost of Energy for Baltimore

502,485,000 kw-hr (line 15, col 11, Table I.B) at 1.3 mills/kw-hr  $= \$652,919$

(e) Credits to Baltimore

for backfeed 127,031,000 kw-hr (Sel. X) at 4.7 mills/kw-hr  $= \$597,046$

for energy "Division from Baltimore's 2/3 of  
Safe Harbor" 129,426,000 kw-hr (Sel. X) at 0.867 mills/kw-hr  $= \$112,207$

Subtotal energy credits  $= \$709,253$

for capacity "Division from Baltimore's 2/3 of  
Safe Harbor" 47,473 kw (Sel. Y) at \$14.27/kw  $= \$677,725$

for capacity "Division from Baltimore's 2/3 of  
Safe Harbor" 47,473 kw (Sel. Y) at \$14.27/kw  $= \$677,725$

for capacity "Division from Baltimore's 2/3 of  
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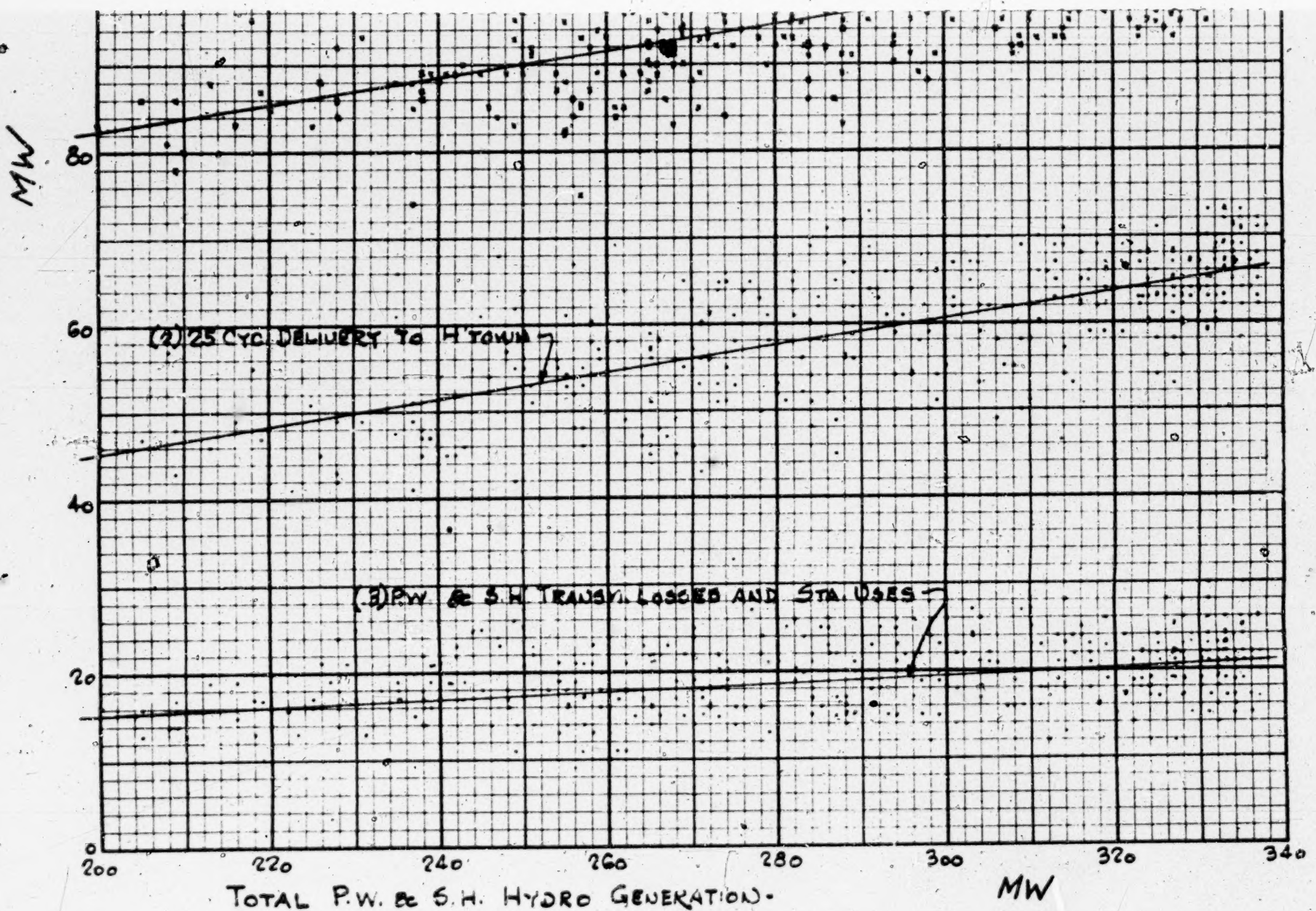
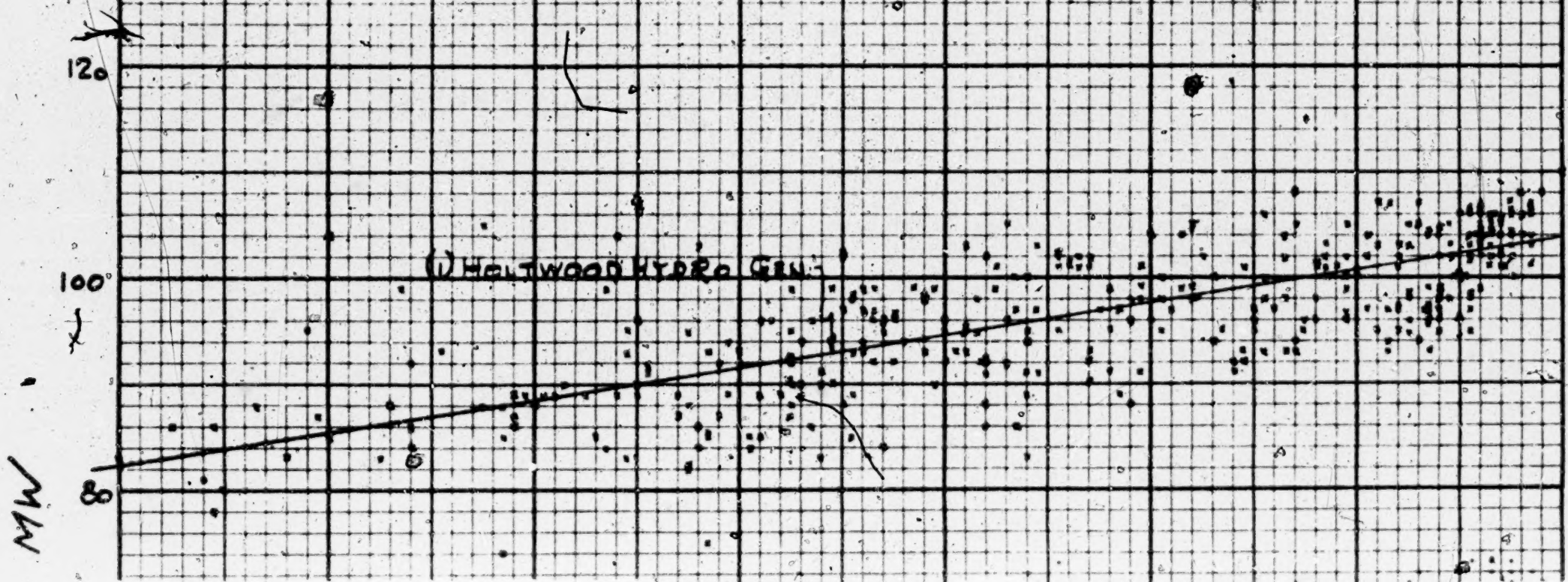
for capacity "Division from Baltimore's 2/3 of  
Safe Harbor" 47,473 kw (Sel. Y) at \$14.27/kw  $= \$677,725$

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for capacity "Division from Baltimore's 2/3 of  
Safe Harbor" 47,473 kw (Sel. Y) at \$14.27/kw  $= \$677,725$



RELATIONS OF (1) HOLTWOOD HYDRO GENERATION, (2) 25 CYCLE DELIVERY  
 TO HIGHLANDTOWN AND (3) P.W. & S.H. TRANSMISSION LOSSES  
 AND STATION USES TO TOTAL P.W. & S.H. HYDRO GENERATION,  
 FOR THE HOURS OF SYSTEM PEAK LOAD (AREA G + PA. COST)  
 ON ALL DAYS OF 1945 & 1946 EXCEPT SAT, SUN & HOL.  
 AND THOSE DAYS ON WHICH HYDRO UNITS (AT HOLT  
 OR S.H.) WERE OUT OF SERVICE FOR MAINTENANCE



[2

[25310]

Exhibit No. 510

4531



## EXHIBIT NO. 511.

[25311]

January 6, 1947

To Mr. F. A. Leslie  
FROM R. L. Ashley

SUBJECT Revised Basis for Average Flow Hydro Generation.

When the present basis for computing excess and deficiency in the hydro generation was agreed upon in 1944, average flow generation was based on the 25-year record from 1917 to 1941, inclusive; however, it was agreed between the Pennsylvania Water & Power Company and ourselves, as stated in Mr. Greer's memorandum of December 21, 1944, that this basis would be revised at five-year intervals as soon as additional data are available. Therefore, beginning January 1, 1947, computations of excess and deficiency of hydro generation will be based upon the following average figures which have been determined for the 30-year period of 1917 to 1946, inclusive:

	30-Year Average Flow Hydro Generation 100% Utilization (1000's of Kilowatthours)		
	Per Day	Per Week	Per Month
Jan.	4,343	30,401	134,633
Feb.	4,570	31,990	*127,960
Mar.	6,901	48,307	213,931
Apr.	6,936	48,552	208,080
May	5,672	39,704	175,832

\*In leap year the figure for February is  
132,530 mwh.

4534

## Exhibit No. 511

	Per Day	Per Week	Per Month
June	3,977	27,839	119,310
July	2,796	19,572	86,676
Aug.	2,181	15,267	67,611
Sept.	1,986	13,902	59,580
Oct.	2,618	18,326	81,158
Nov.	3,976	27,832	119,280
Dec.	4,256	29,792	131,936
			<hr/> 1,525,987

The above figures are for the entire year, and this letter supersedes a previous letter dated December 31, 1946 which contained figures for only 11 months.

R. L. ASHLEY  
Assistant Director  
Intersystem Power Utilization Bureau

RLA:JC

CC to Messrs. Sherry, Knight and Von Eiff

Copy sent: Messrs. Spaulding, Watchorn, Loane, Seitz,  
Stumpf.

HAV:K 1-21-47



**EXHIBIT NO. 512.**

[25313]

**CONSOLIDATED GAS ELECTRIC LIGHT AND  
POWER COMPANY OF BALTIMORE**

**NOTES APPLICABLE TO STATEMENT OF OPERATIONS**

**PROSPECTUS**

223,063 Shares

**CONSOLIDATED GAS ELECTRIC LIGHT AND POWER  
COMPANY OF BALTIMORE**

Preferred Stock, Series B 4½%

• • •

Note III: Under contracts with Safe Harbor Water Power Corporation and Pennsylvania Water & Power Company (see pages 23, 24) whereby the Company purchases the entire electrical energy output of the plants now operated by those companies except such energy as is sold by those companies to Pennsylvania customers, the Company pays annual charges for the purchase of electrical power from those companies independent of the volume of energy received.